





CODE DATA

GOVERNING CODES:

- A. 1997 UBC AND 2001 CALIFORNIA AMENDMENTS (01 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR).  
B. 1999 NEC AND 2001 CALIFORNIA AMENDMENTS (01 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR).  
C. 2000 UMC AND 2001 CALIFORNIA AMENDMENTS (01 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR).  
D. 2000 UPC AND 2001 CALIFORNIA AMENDMENTS (01 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR) - (PUBLISHER IAPMO).  
E. 2000 UFC AND 2001 CALIFORNIA AMENDMENTS (01 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR).

BUILDING:

DESCRIPTION		DATA		
PROJECT NAME		MOUNTAIN VIEW PARKING STRUCTURE		
PROJECT ADDRESS		CORNER OF CALIFORNIA AND BRYANT		
OCCUPANCY TYPE(S) - CHAPTER 3		S-4 OPEN PARKING GARAGE	S-3 PARKING STRUCTURE	M-MERCANTILE
BUILDING HEIGHT		56'-8" TOP OF PARAPET WALL		
CONSTRUCTION TYPE(S) - CHAPTER 6		TYPE II - 1 HR	TYPE II - 1 HR	TYPE II - 1 HR
OCC. SEPARATION - TABLE 3-B		EXCLUDED	1-HR	1-HR
EXTERIOR WALLS AND OPENING PROTECTION TABLE 5-A	BEARING WALL	1 HR N/C < 10'-0" NR, N/C < ELSEWHERE	1 HR N/C	1 HR N/C
	NON-BEARING WALL	1 HR N/C < 10'-0" NR, N/C ELSEWHERE	NR, N/C > 40'-0" 1 HR N/C	NR, N/C > 40'-0"
	OPENINGS	NOT PERMITTED < 5'-0", PROTECTED < 10'-0"	NOT PERMITTED < 5'-0", PROTECTED < 10'-0"	NOT PERMITTED < 5'-0", PROTECTED < 10'-0"
ALLOWABLE STORIES TABLE 3-H/5B		10 TIERS (TABLE 3H)	12 TIERS (TABLE 3H)	4 STORIES (TABLE 5B)
ACTUAL HEIGHT		4 TIERS	1 TIER	1 STORY
BASE ALLOWABLE AREA		50,000 S.F.	39,900 S.F.	18,000 S.F.
ALLOWABLE AREA INCREASES		N/A	SEPARATION ON TWO SIDES ALLOWS 50% - 39,900 x 1.5 = 59,850 S.F. SPRINKLERED ALLOWS DOUBLE - 59,850 x 2 = 119,700 S.F.	SEPARATION ON TWO SIDES ALLOWS 50% - 18,000 x 1.5 = 27,000 S.F. SPRINKLERED ALLOWS DOUBLE - 27,000 x 2 = 54,000 S.F.
ACTUAL AREA		36,000 SF PER TIER	36,000 SF PER TIER	17,000 SF PER STORY
MIXED USE PER 504.3		10 x 50,000 = 500,000 144,000/500,000 = .29	12 x 119,700 = 1,436,400 36,000/1,436,400 = .02	4 x 54,000 = 216,000 17,000/216,000 = .10
			.29 + .02 + .10 = .41 < 1.0	
FIRE RATED REQUIREMENTS - TABLE 6-A				
EXTERIOR BEARING WALLS		1-HR	4-HR	1-HR
INTERIOR BEARING WALLS		1-HR	2-HR	1-HR
EXTERIOR NONBEARING WALLS		1-HR	4-HR	1-HR
STRUCTURAL FRAME		1-HR	2-HR	1-HR
PERMANENT PARTITIONS		1-HR	1-HR	1-HR
SHAFT ENCLOSURES (SECTION 1005.3.3.2)		2-HR	2-HR	1-HR
FLOOR CEILING ASSEMBLIES		1-HR	2-HR	1-HR
ROOF CEILING ASSEMBLIES		1-HR	1-HR	1-HR
EXTERIOR DOORS AND WINDOWS		SECTION 603.3.2	SECTION 603.3.2	SECTION 603.3.2
STAIRWAY CONSTRUCTION		SECTION 603.4	SECTION 603.4	SECTION 603.4
OCC. LOAD FACTOR-TABLE 10-A EXITS REQUIRED (FOR LARGEST FLOOR LEVEL ONLY)		200 S.F./OCCUPANT 36,000 S.F./200 S.F. = 180 OCC. 2 EXITS REQUIRED	200 S.F./OCCUPANT 36,000 S.F./200 S.F. = 180 OCC. 2 EXITS REQUIRED	30 S.F./OCCUPANT 17,000 S.F./30 = 567 2 EXITS REQUIRED
EXITS PROVIDED		2 TOTAL	2 TOTAL	2 TOTAL
STAIR WIDTH REQUIRED-SECTION 1003.2.3.2		44" MINIMUM (180 OCC. x 0.3 = 54")	44" MINIMUM (180 OCC. x 0.3 = 54")	36" MINIMUM (667 OCC. x 0.2 = 134")
ACTUAL WIDTH PROVIDED:		2 x 44" = 88"	2 x 44" = 88"	2 x 72" = 144"

NOTE: AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT

PARKING STALL SUMMATION

LEVEL	STANDARD	ACCESSIBLE	TOTAL	SQ. FOOTAGE	SQ. FT. / STALL
FIFTH	74	0	74	24,200	327
FOURTH	105	0	105	35,200	335
THIRD	107	2	109	35,200	323
SECOND	92	2	94	34,100	359
GROUND	21	5	26	* (P) 18,600 (R) 16,200	641
TOTAL	400	9	408	** 147,300	360

- LEGEND:  
\* (P) = PARKING (R) = RETAIL  
\*\* TOTAL AREA DOES NOT INCLUDE RETAIL SPACE

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OPENNESS CALCULATIONS

311.9.2.2 OPENINGS. FOR NATURAL VENTILATION PURPOSES, THE EXTERIOR SIDE OF THE STRUCTURE SHALL HAVE UNIFORMLY DISTRIBUTED OPENINGS ON TWO OR MORE SIDES. THE AREA OF SUCH OPENINGS IN EXTERIOR WALLS ON A TIER MUST BE AT LEAST 20 PERCENT OF THE TOTAL PERIMETER WALL AREA OF EACH TIER. THE AGGREGATE LENGTH OF THE OPENINGS CONSIDERED TO BE PROVIDING NATURAL VENTILATION SHALL CONSTITUTE A MINIMUM OF 40 PERCENT OF THE PERIMETER OF THE TIER. INTERIOR WALL LINES AND COLUMN LINES SHALL BE AT LEAST 20 PERCENT OPEN WITH UNIFORMLY DISTRIBUTED OPENINGS.

GROUND LEVEL:  
PERIMETER : 806 FT.  
OPEN PERIMETER : 366 FT.  
FLOOR TO FLOOR HEIGHT : 18'-0"  
RAILING HEIGHT : 4'-0"  
EDGE OF SLAB DEPTH : 3'-0"

PERIMETER WALL AREA = 806' x 18'-0" = 14,508 S.F.  
OPEN WALL AREA = 366' x 11'-0" = 4,026 S.F.  
OPEN AREA % = 27.8% > 20%

PERIMETER WALL LENGTH = 806 FT.  
OPEN WALL LENGTH = 366 FT.  
OPEN LENGTH % = 45.4% > 40%

SECOND LEVEL:  
PERIMETER : 806 FT.  
OPEN PERIMETER : 389 FT.  
FLOOR TO FLOOR HEIGHT : 11'-6"  
RAILING HEIGHT : 3'-7"  
EDGE OF SLAB DEPTH : 3'-0"

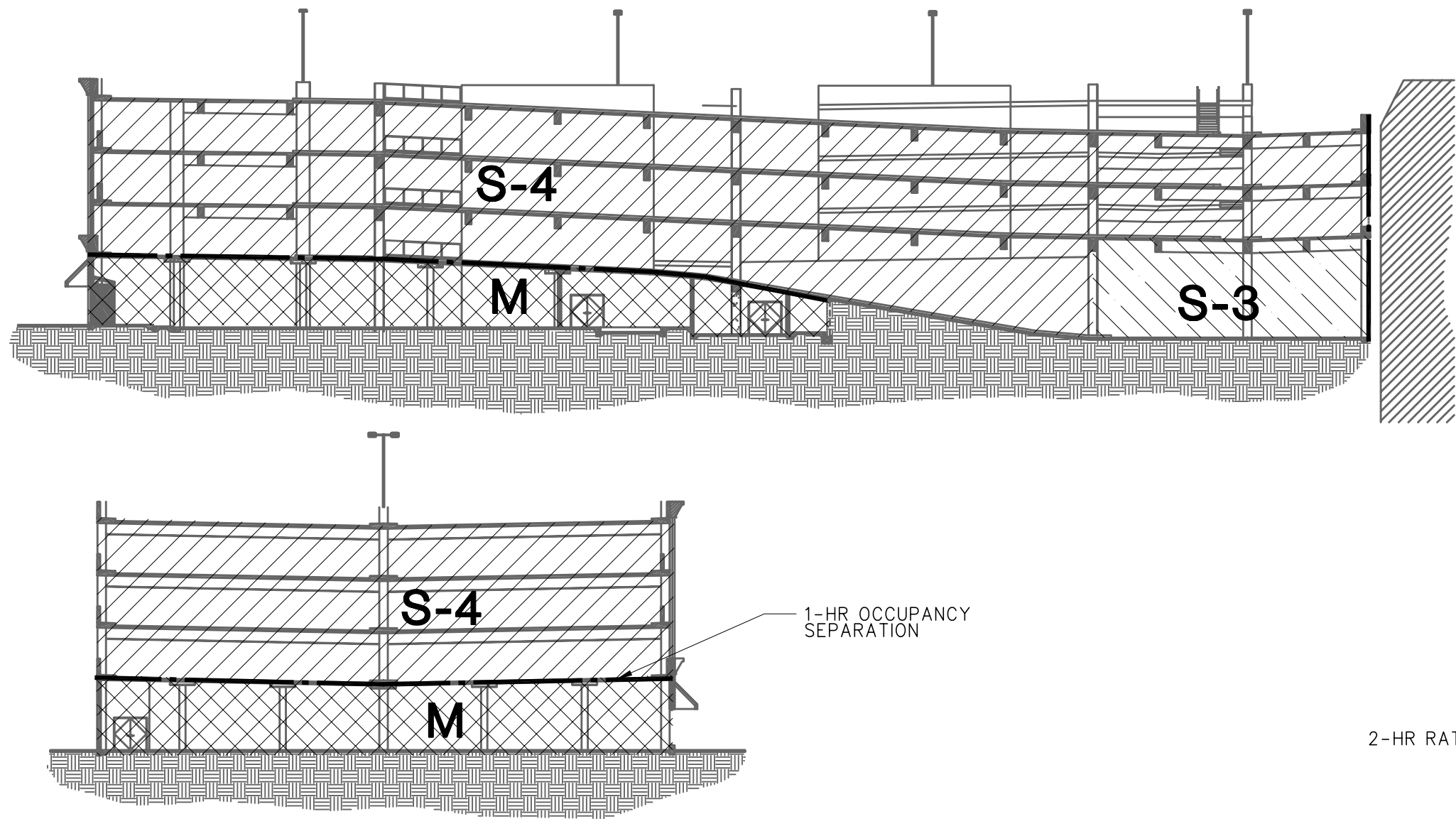
PERIMETER WALL AREA = 806' x 11'-6" = 9,269 S.F.  
OPEN WALL AREA = 389' x 8'-6" = 1,913 S.F.  
OPEN AREA % = 20.6% > 20%

PERIMETER WALL LENGTH = 806 FT.  
OPEN WALL LENGTH = 389 FT.  
OPEN LENGTH % = 48.3% > 40%

THIRD AND FOURTH LEVEL:  
PERIMETER : 806 FT.  
OPEN PERIMETER : 389 FT.  
FLOOR TO FLOOR HEIGHT : 11'-6"  
RAILING HEIGHT : 3'-7"  
EDGE OF SLAB DEPTH : 5"

PERIMETER WALL AREA = 806' x 11'-6" = 9,269 S.F.  
OPEN WALL AREA = 389' x 11'-6" = 3,080 S.F.  
OPEN AREA % = 33.2% > 20%

PERIMETER WALL LENGTH = 806 FT.  
OPEN WALL LENGTH = 389 FT.  
OPEN LENGTH % = 48.3% > 40%



FIRE RATING BUILDING SECTION

FIRE RATED ASSEMBLIES

EXTERIOR WALLS - GARAGE

- EXTERIOR METAL FRAMED/CEMENT PLASTER WALL CONSTRUCTION TO COMPLY WITH CBC TABLE 7B, ITEM 18-1-6 (2 LAYERS OF 5/8" TYPE 'X' GYP. BD. AND PLASTER BOTH SIDES), OR APPROVED EQUAL TO PROVIDE A 2-HOUR ASSEMBLY.
- EXTERIOR POUR-IN-PLACE CONC. WALL CONSTRUCTION TO COMPLY WITH CBC TABLE 7-B, ITEM 71.1 TO PROVIDE A 2-HOUR ASSEMBLY.
- EXTERIOR 8" CMU WALL CONSTRUCTION TO COMPLY WITH CBC TABLE 7B, ITEM 6 TO PROVIDE A 1-HOUR ASSEMBLY. SEE PLAN ABOVE FOR LOCATION.
- INTERIOR 8" CMU WALL CONSTRUCTION TO COMPLY WITH CBC TABLE 7B, ITEM 6 TO PROVIDE A 1-HOUR ASSEMBLY, TYP. U.O.N.

FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES - GARAGE

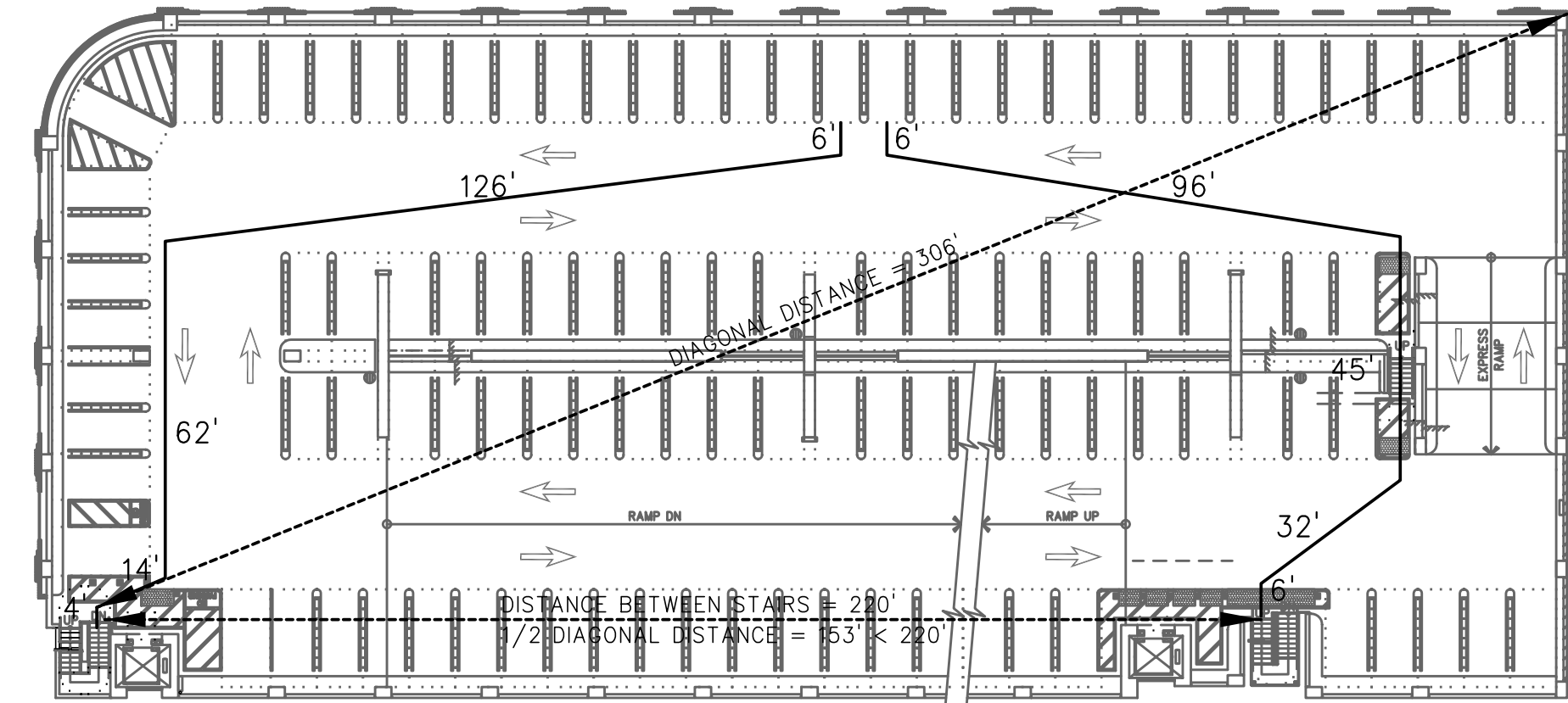
POST-TENSIONED CONC. FLOOR CONSTRUCTION AT THE 2ND TO 5TH LEVELS TO COMPLY WITH CBC TABLE 7-A, TO PROVIDE A 1-HOUR ASSEMBLY WITHOUT PROTECTION AT FLOOR/CEILING.

FIRE RESISTIVE CONSTRUCTION GENERAL NOTES:

PENETRATIONS OF FIRE RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN UBC SECTION 709 AND 710.

EXITING DIAGRAMS

- MAXIMUM TRAVEL DISTANCE IS 250' FOR AN AUTOMATIC SPRINKLER EQUIPPED PARKING STRUCTURE, PER U.B.C. SECTION 1004.2.5.2.4 (200' FOR A NON-SPRINKLER EQUIPPED PARKING STRUCTURE)

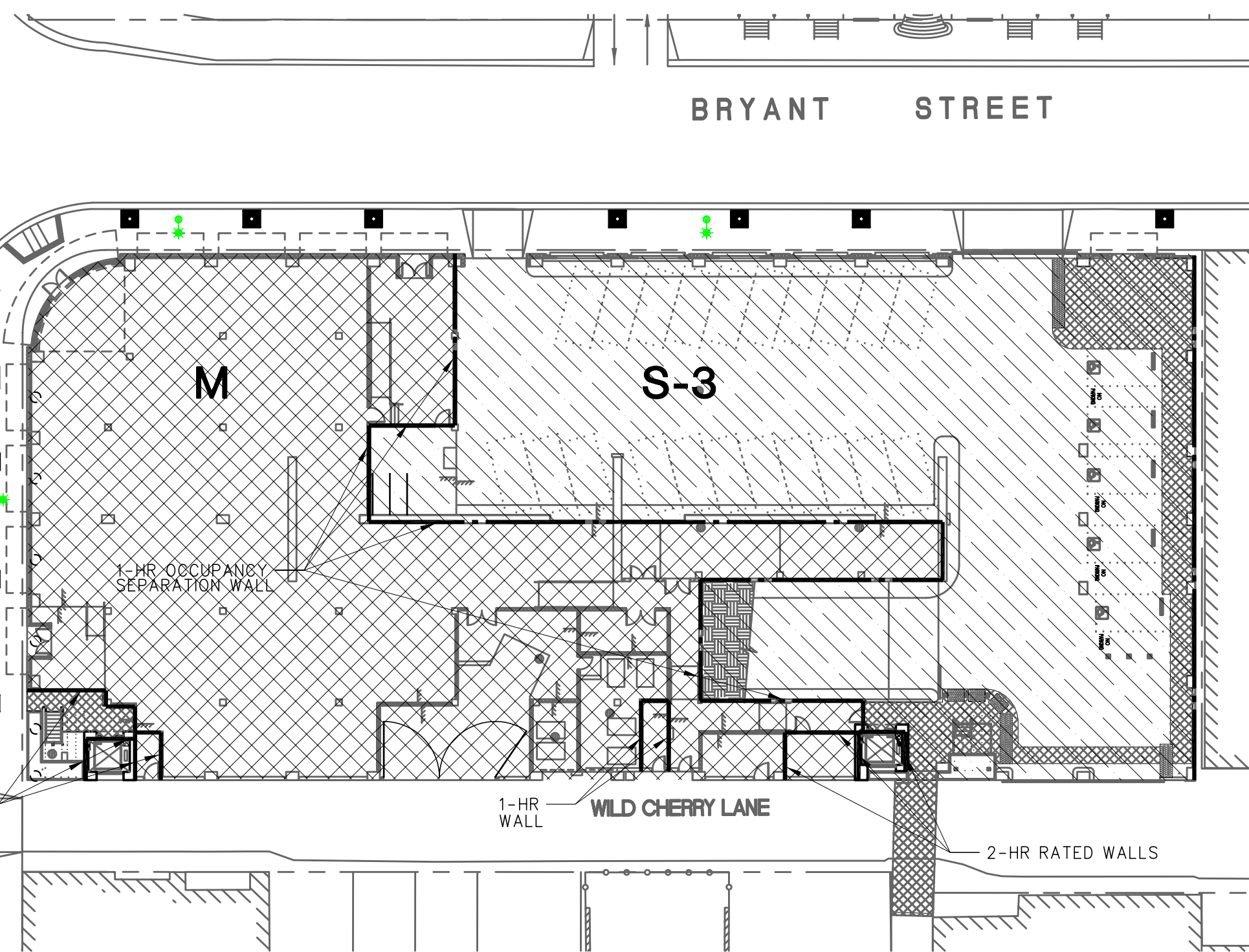


TYPICAL LEVEL EXITING PLAN

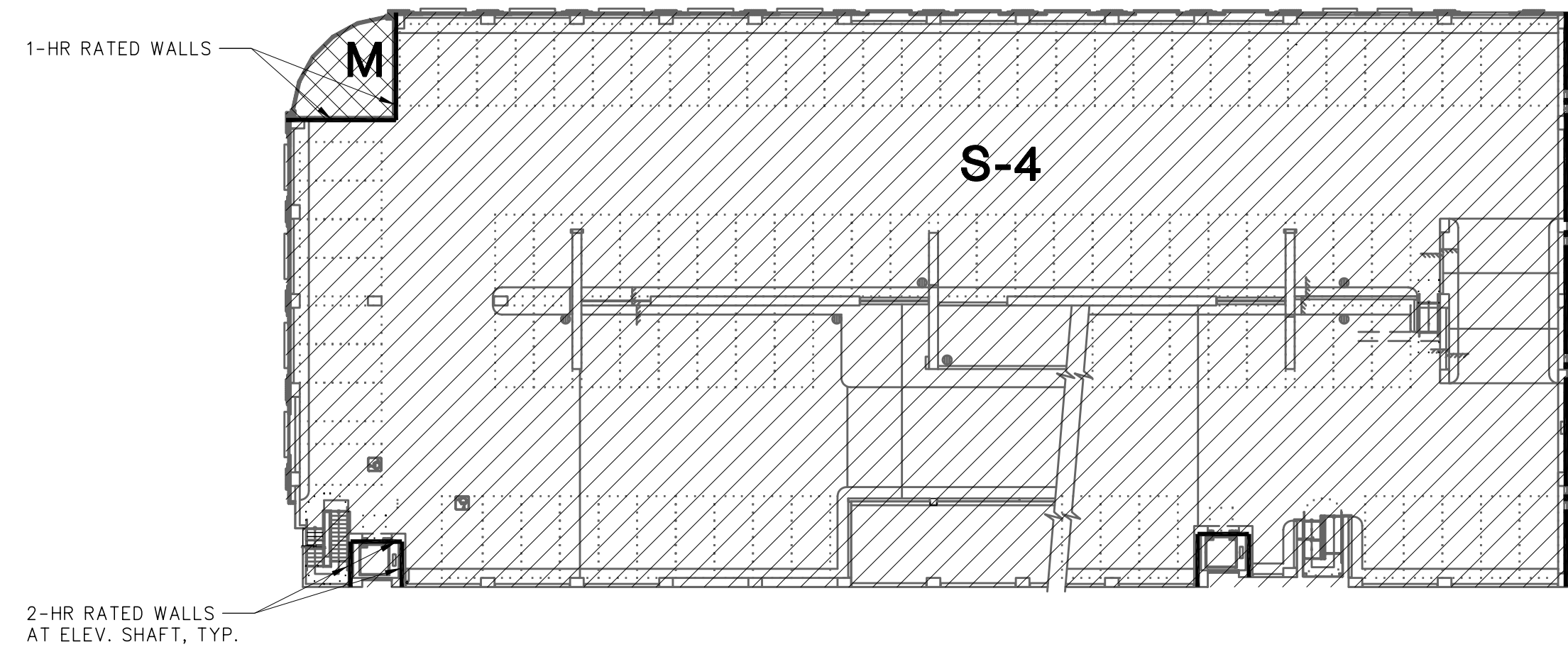
DISTANCE BETWEEN STAIRS = 220'  
1/2 DIAGONAL DISTANCE = 153' < 220'  
TOTAL DISTANCE TRAVELED = 232' < 250' MAXIMUM  
ALLOWABLE TRAVEL DISTANCE FOR A SPRINKLERED BUILDING  
TRAVEL DISTANCE = 212'

WALL FIRE RATINGS LEGEND

- 1 HR.  
2 HR.

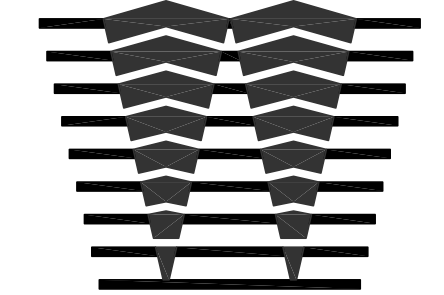


FIRST LEVEL FIRE RATING PLAN



SECOND LEVEL FIRE RATING PLAN

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DATA SHEET

MOUNTAIN VIEW  
PARKING STRUCTURE  
MOUNTAIN VIEW, CALIFORNIA

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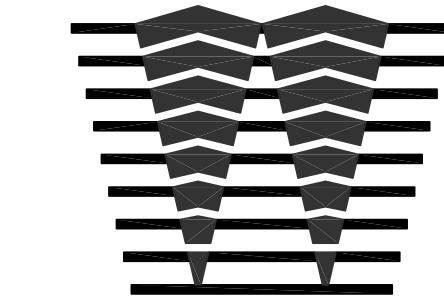
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SITE PLAN

**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

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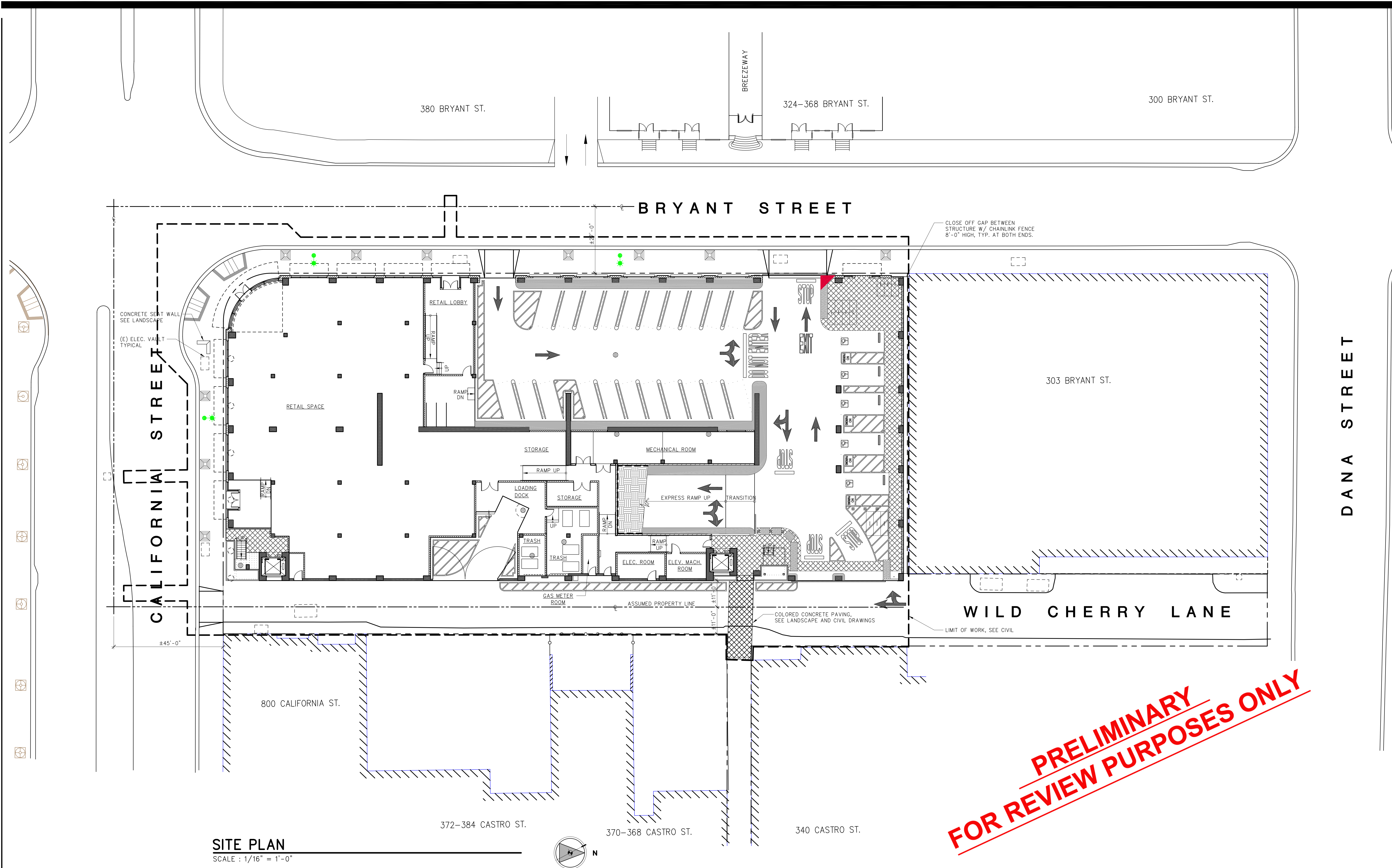
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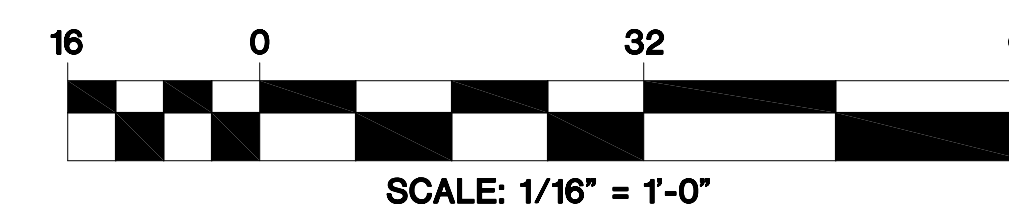
**SITE PLAN**

SCALE : 1/16" = 1'-0"

**NOTES**

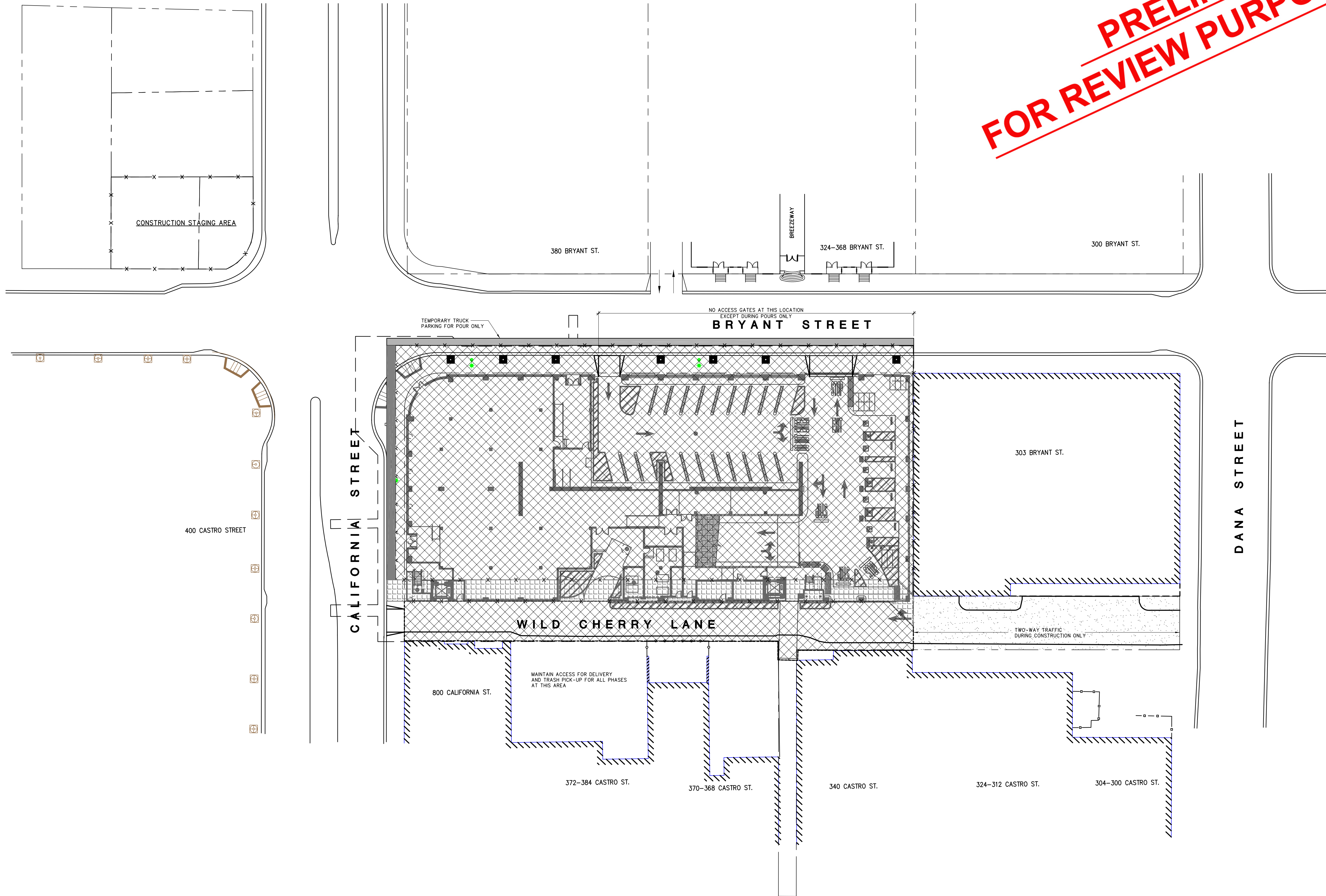
1. FOR PATHWAY WORK EXTERIOR TO BUILDING, SEE CIVIL & LANDSCAPE DRAWINGS.
2. FOR TREE LOCATION PLAN, SEE LANDSCAPE AND CIVIL DRAWINGS.
3. FOR HORIZONTAL & VERTICAL CONTROL POINTS, SEE CIVIL DRAWINGS.
4. FOR DRAINAGE EXTERIOR TO BUILDING, SEE CIVIL DRAWINGS.
5. FOR WORK IN STREETS, SEE CIVIL DRAWINGS.
6. FOR LIGHTING OF PATHWAYS EXTERIOR TO BUILDING, SEE ELECTRICAL DRAWINGS.

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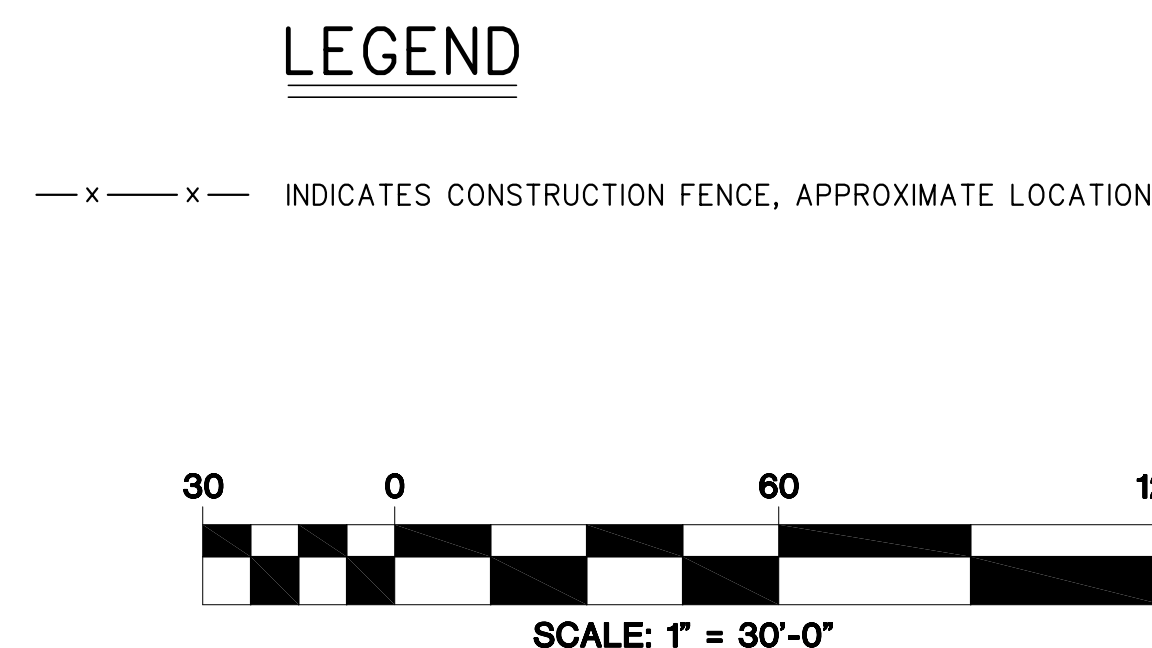
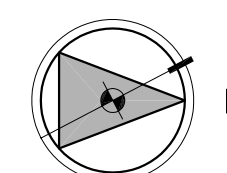




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PHASE ONE  
CONSTRUCTION PLAN  
SCALE : 1" = 30'-0"



CONSTRUCTION PLAN

**MOUNTAIN VIEW  
PARKING STRUCTURE**

MOUNTAIN VIEW, CALIFORNIA

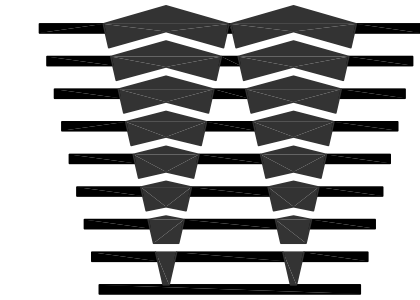
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FILE NAME	:	0244A12

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CONSTRUCTION PLANS

MOUNTAIN VIEW  
PARKING STRUCTURE  
MOUNTAIN VIEW, CALIFORNIA

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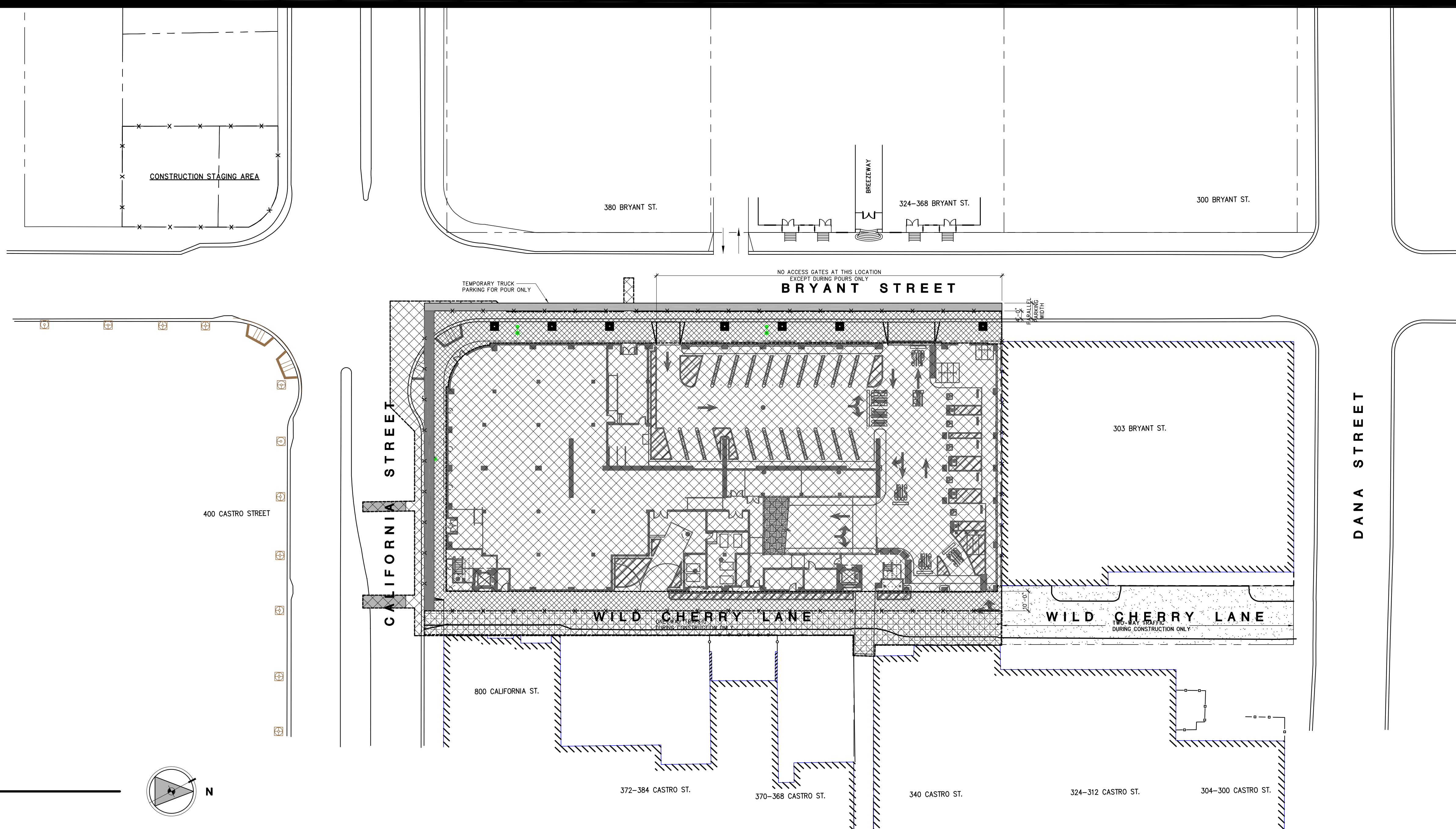
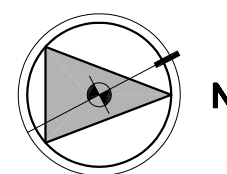
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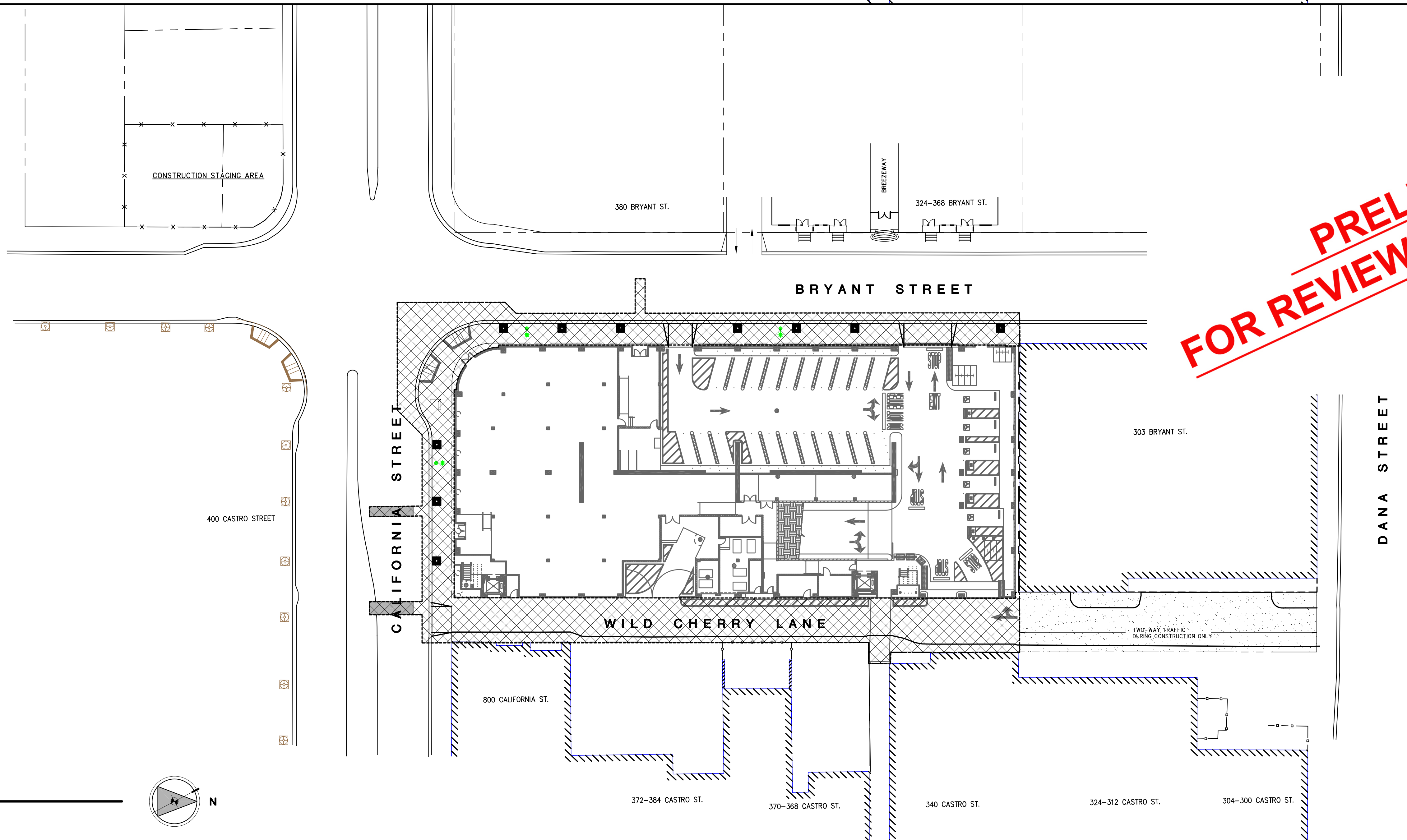
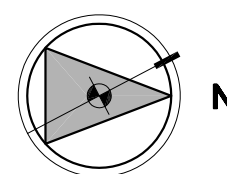
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PHASE TWO  
CONSTRUCTION PLAN  
SCALE : 1" = 30'-0"

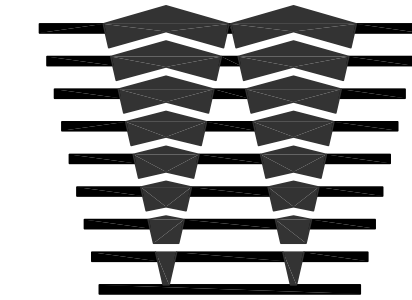


PHASE THREE  
CONSTRUCTION PLAN  
SCALE : 1" = 30'-0"



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### NOTES:

- GENERAL SYMBOL AND WALL TYPE INDEX IS ON SHEET T0.1. FOR RATED WALLS, SEE SHEET T0.2 & ENLARGED PLANS, TYP.
- FOR STEEL BOLLARDS (SB), SEE DETAIL 18 A6.1
- PROVIDE PROTECTION PLATES AT ALL PIPES AND RISERS SUBJECT TO CAR IMPACT, PER DETAIL 19 A6.1
- LIGHTLY SHADED AREAS INDICATE 7" SLOPED TO 6" CURBS, TYPICAL, U.N.O. THE RADIUS AT ALL CURBS TO BE 2'-0" TYPICAL, U.N.O. FOR ALL CURB DIMENSIONS NOT SHOWN HERE SEE ENLARGED PLANS, TYPICAL.
- FOR DETAILED RELATIONSHIP OF COLUMNS & SHEAR WALLS TO GRID, SEE COLUMN SCHEDULE & SHEAR WALL DETAILS ON SHEETS S5.1
- FOR DOOR SCHEDULE & FINISH SCHEDULE, SEE SHEET A10.1
- FOR CROSS HATCH PAINT STRIPING SEE DETAIL 14 A6.1
- PAINT STRIPING IS TO BE 1'-0" AWAY FROM ALL CURBS, WALLS AND COLUMNS, TYPICAL, SEE DETAIL 8 A6.1 FOR TYPICAL ILLUSTRATION.
- ACCESSIBLE STALLS: 9'-0" x 18'-0"  
STANDARD STALLS: 8'-6" x 18'-0"
- WHEN PARKING STALLS ARE BETWEEN COLUMNS, EITHER:  
A. THE STALLS ARE EQUALLY SPACED BETWEEN THE COLUMNS AND SHEAR WALLS AT THE PRESCRIBED ANGLE OR,  
B. ONE STALL IS TANGENT TO A SHEAR WALL AT THE PRESCRIBED ANGLE AND THE REMAINING STALLS ALIGN WITH THAT STALL.
- WHEN ADJACENT STALLS ARE NOT PARALLEL TO EACH OTHER, THE BACK CORNER OF THE STALLS ARE POSITIONED SO THAT NO ONE STALL EXTENDS THROUGH ANOTHER STALL'S LEGAL AREA.

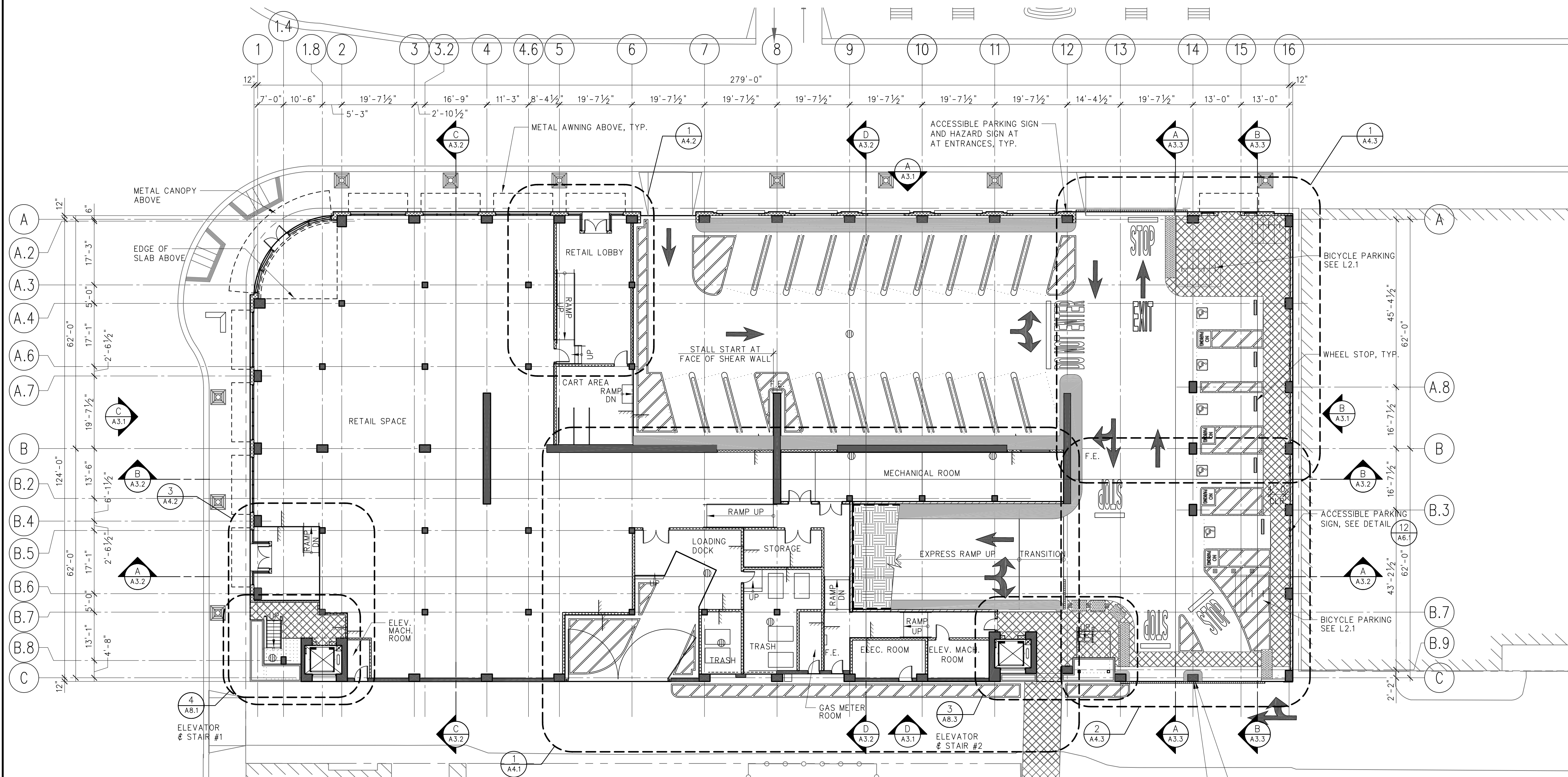
### LEGEND

- INDICATES INTERNATIONAL SYMBOL OF ACCESSIBILITY, SEE DETAIL 13 A6.1
- F.E. FIRE EXTINGUISHER IN CABINET, FOR CONNECTION SEE DETAIL 21 A6.1
- INDICATES WHEEL STOP, SEE DETAIL 10 A6.1
- F.D. INDICATES FLOOR DRAIN LOCATION, SEE DRAINAGE PLANS.
- INDICATES TRENCH DRAIN LOCATION, SEE DRAINAGE PLANS.
- BARRIER INDICATES BARRIER RAIL, SEE DETAIL 10 A7.1
- F.R. FIRE RISER, SEE FIRE PROTECTION DRAWINGS.
- D.S.P. DRY STANDPIPE, SEE FIRE PROTECTION DRAWINGS.
- INDICATES STALL STRIPE, SEE SHEET A6.1 FOR STRIPING DETAILS.
- INDICATES PARKING DIRECTION ARROWS.
- INDICATES DETECTABLE WARNING STRIP, SEE DETAIL 20 A6.1
- STEEL BOLLARD
- H.B. INDICATES HOSE BIBB, SEE PLUMBING AND FIRE PROTECTION DRAWINGS.
- INDICATES SLAB DROP, FLOOR ELEVATION CHANGE, SEE DRAINAGE PLANS FOR FINISH FLOOR ELEVATIONS

### DRAINAGE NOTE:

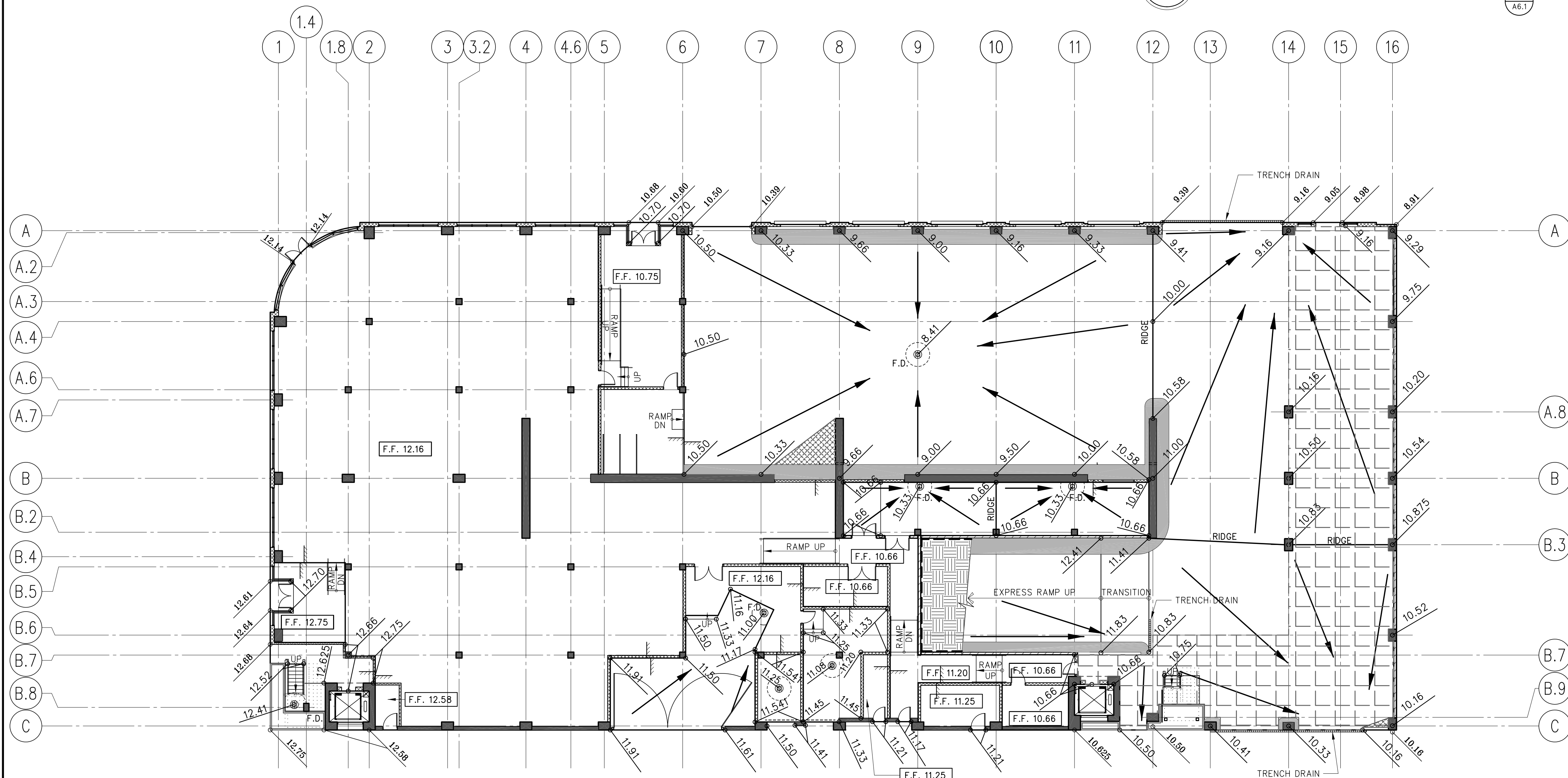
- FOR DRAINAGE NOTE AND LEGEND, SEE SHEET A2.2.

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**GROUND LEVEL PARKING PLAN**

SCALE : 1/16" = 1'-0"



**GROUND LEVEL DRAINAGE PLAN**

SCALE : 1/16" = 1'-0"

GROUND LEVEL PARKING & DRAINAGE PLAN

**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

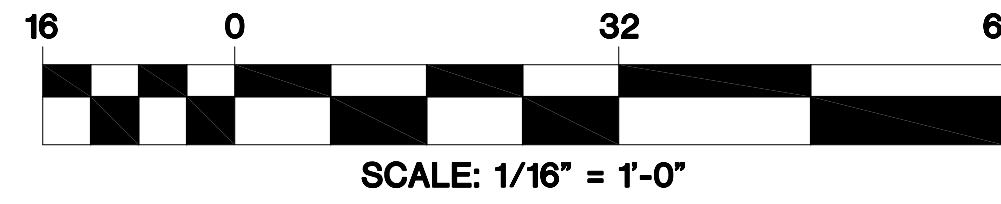
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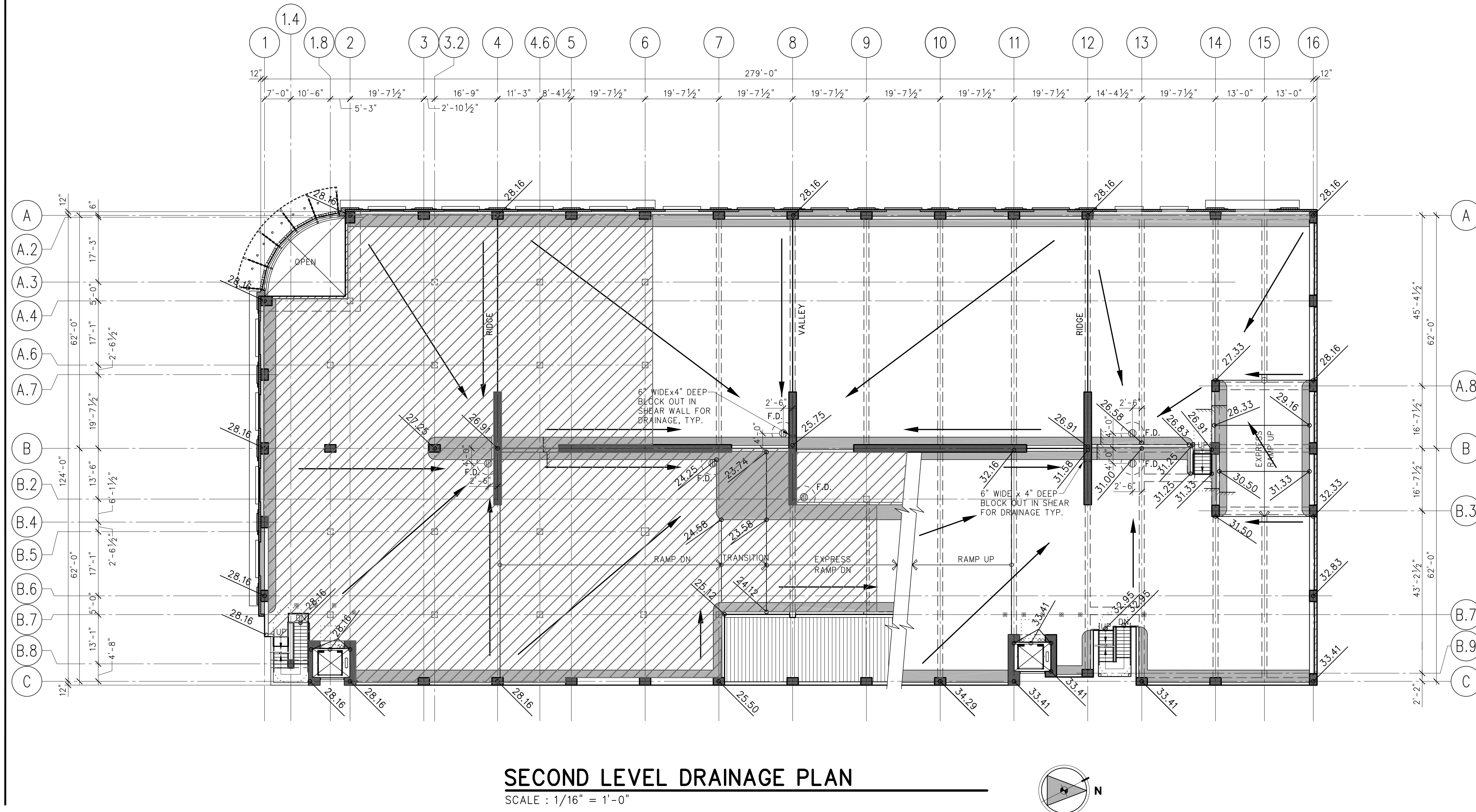
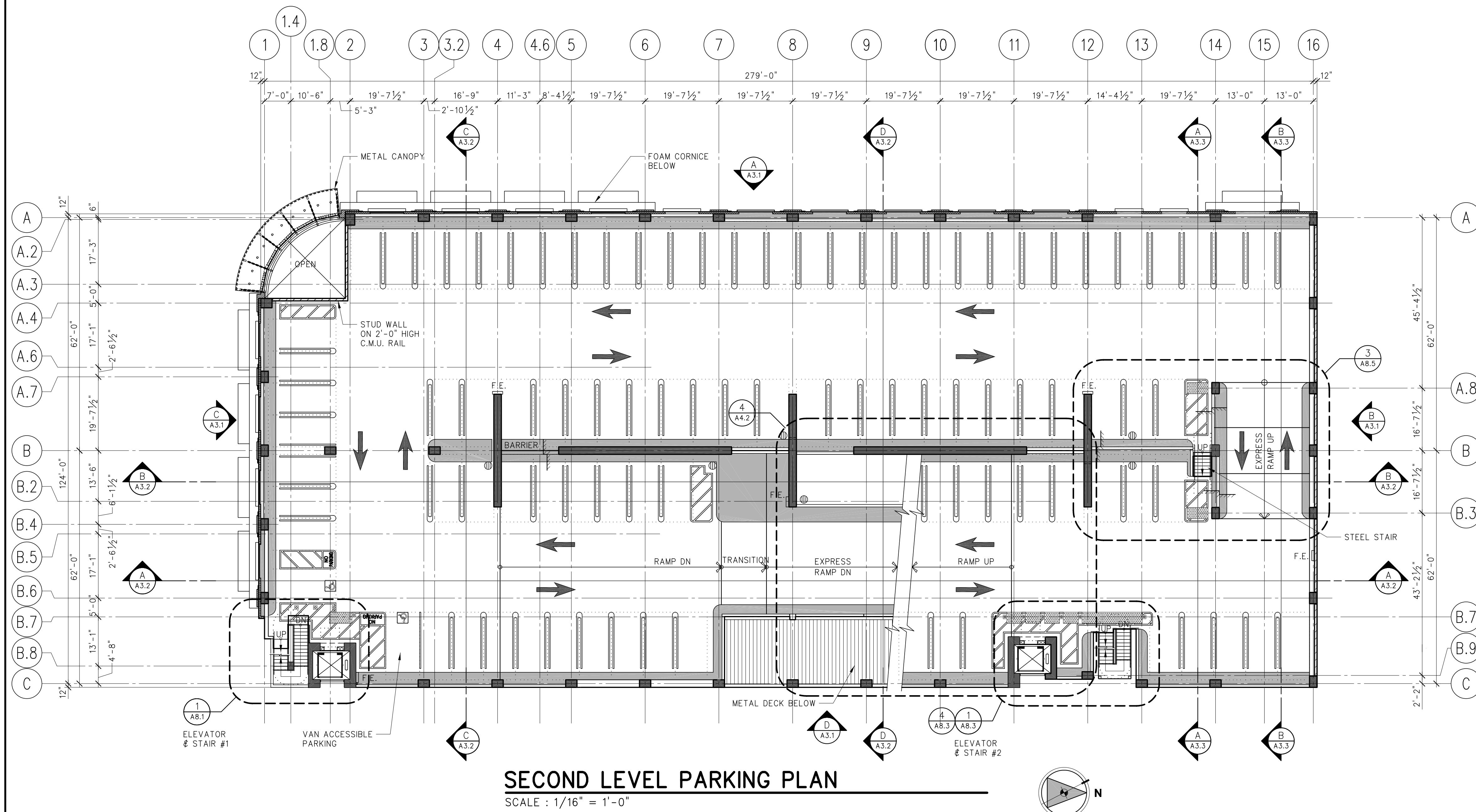
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**A2.1**





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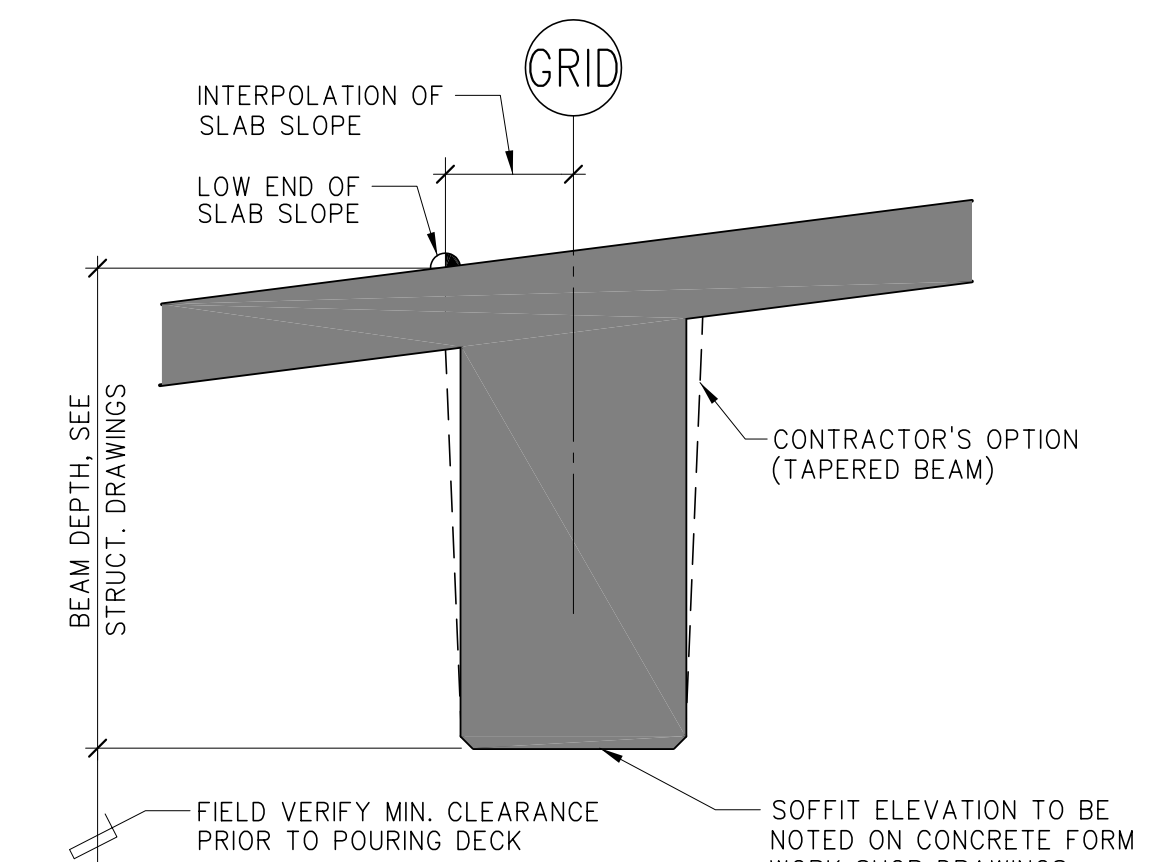
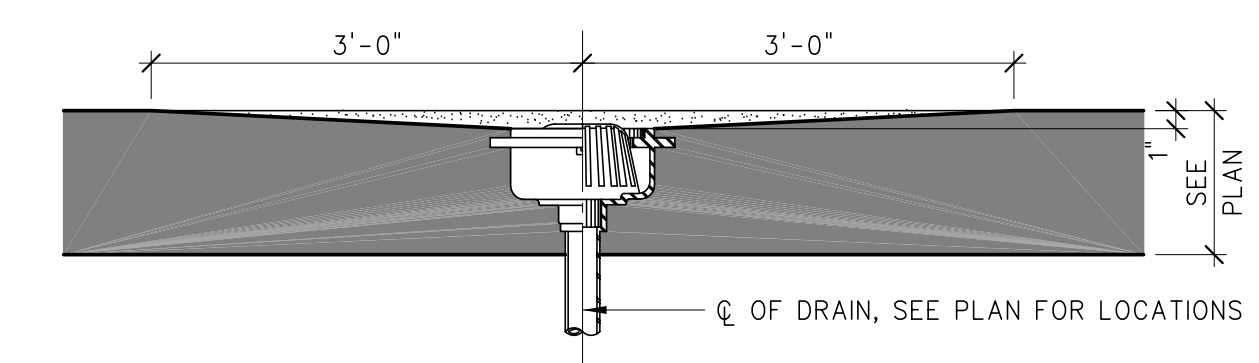
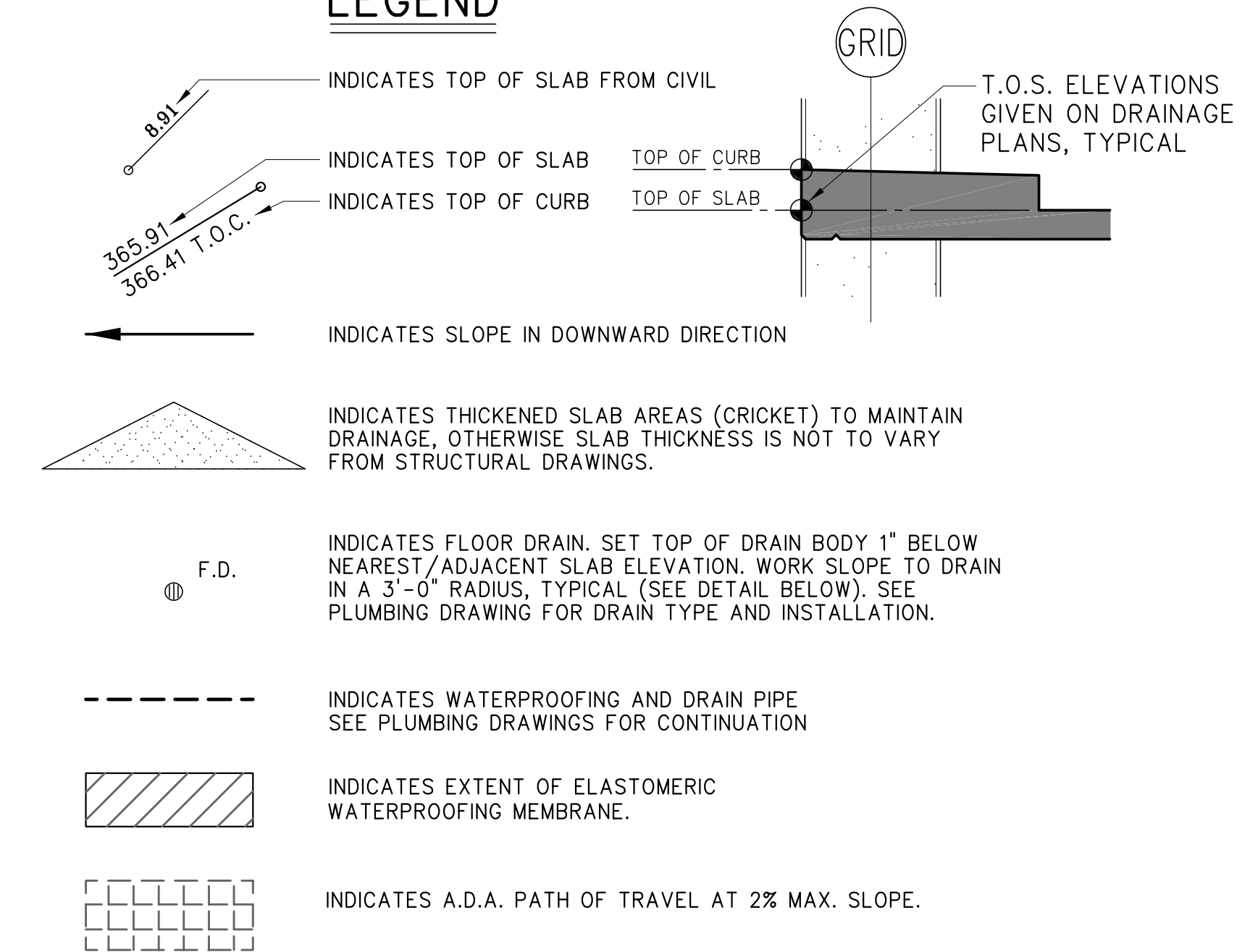
## GENERAL NOTES:

- FOR BALANCE OF NOTES AND LEGEND, SEE SHEET A2.1 AND A2.3

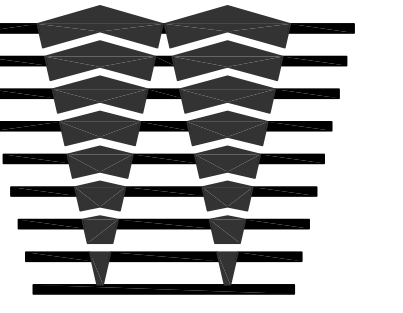
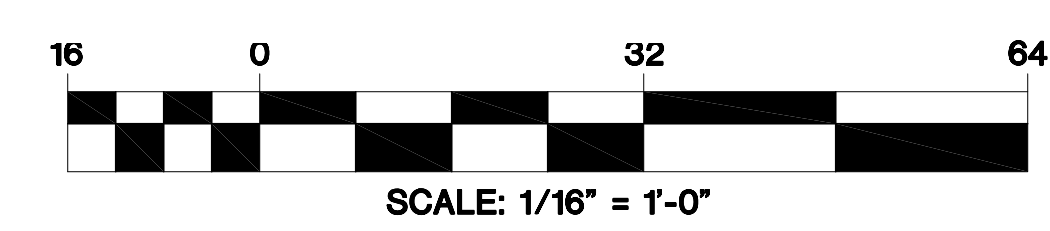
## DRAINAGE NOTES:

- SLAB AND BEAMS SLOPE STRAIGHT BETWEEN POINTS, U.N.O.
- ALL ELEVATIONS ARE TOP OF SLAB ELEVATIONS, U.N.O.
- CLEARANCE REQUIREMENTS:
  - MINIMUM DESIGN CLEARANCE = 8'-6" BELOW BEAMS, TYPICAL, U.N.O. MINIMUM CODE CLEARANCE = 8'-2" FOR ACCESSIBLE PARKING.
  - MINIMUM DESIGN CLEARANCE = 7'-6" BELOW BEAMS, TYPICAL, U.N.O. MINIMUM CODE CLEARANCE = 7'-0" FOR NON-ACCESSIBLE PARKING.
  - CONTRACTOR SHALL FIELD VERIFY ABOVE NOTED BEAM CLEARANCES AND NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH CONCRETE POUR FOR ANY CONFLICTS OR DISCREPANCIES.
- FOR DRAINAGE EXTERIOR TO BUILDINGS, SEE CIVIL DRAWINGS.
- FOR PLUMBING CONNECTIONS, SEE PLUMBING DRAWINGS.
- NOTE: ALL GRADES ARE RELATIVE TO ESTABLISHED DATUM 0.00 WHICH EQUALS 70.00 AS SHOWN ON CIVIL DRAWINGS

## LEGEND



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SECOND LEVEL PARKING & DRAINAGE PLAN

**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

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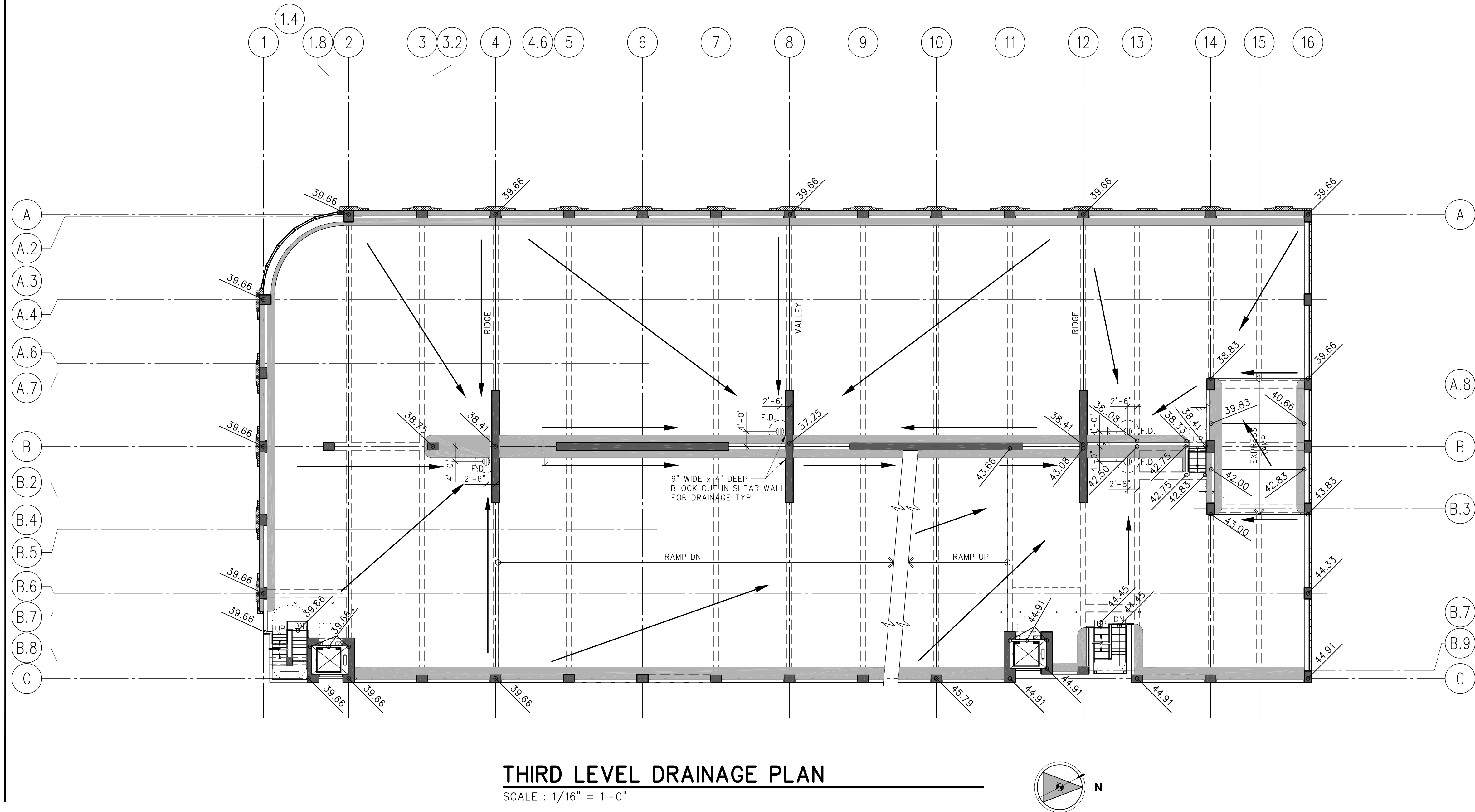
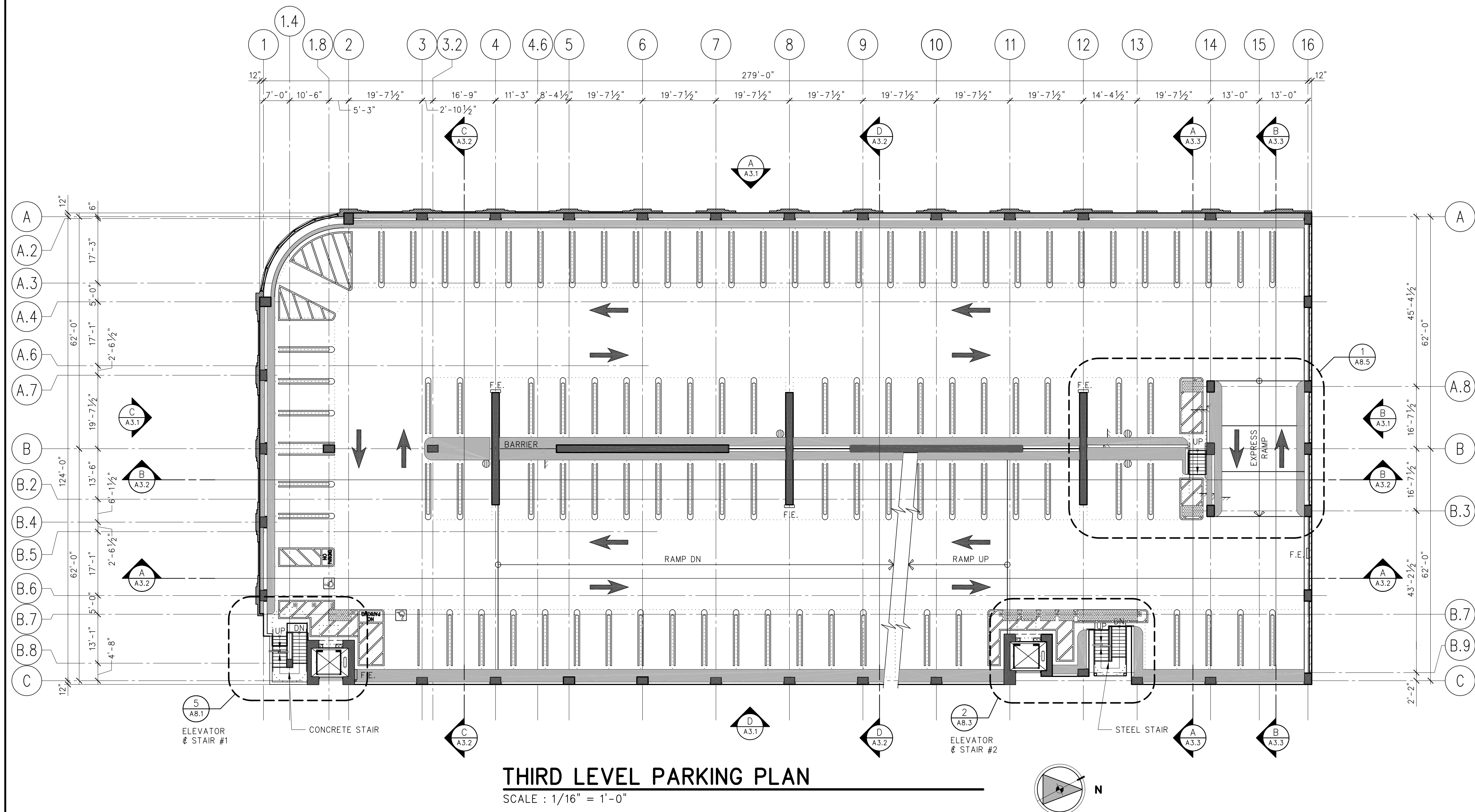
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DATE : 01-21-05  
DESIGN : HORNE  
DRAWN : TY  
CHECKED BY : WENDLER  
FILE NAME : 0244A22

SHEET

**A2.2**



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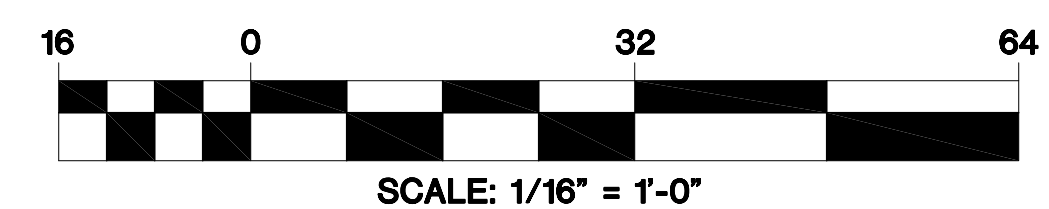
### GENERAL NOTES:

- FOR BALANCE OF NOTES AND LEGEND, SEE SHEET A2.1

### DRAINAGE NOTES:

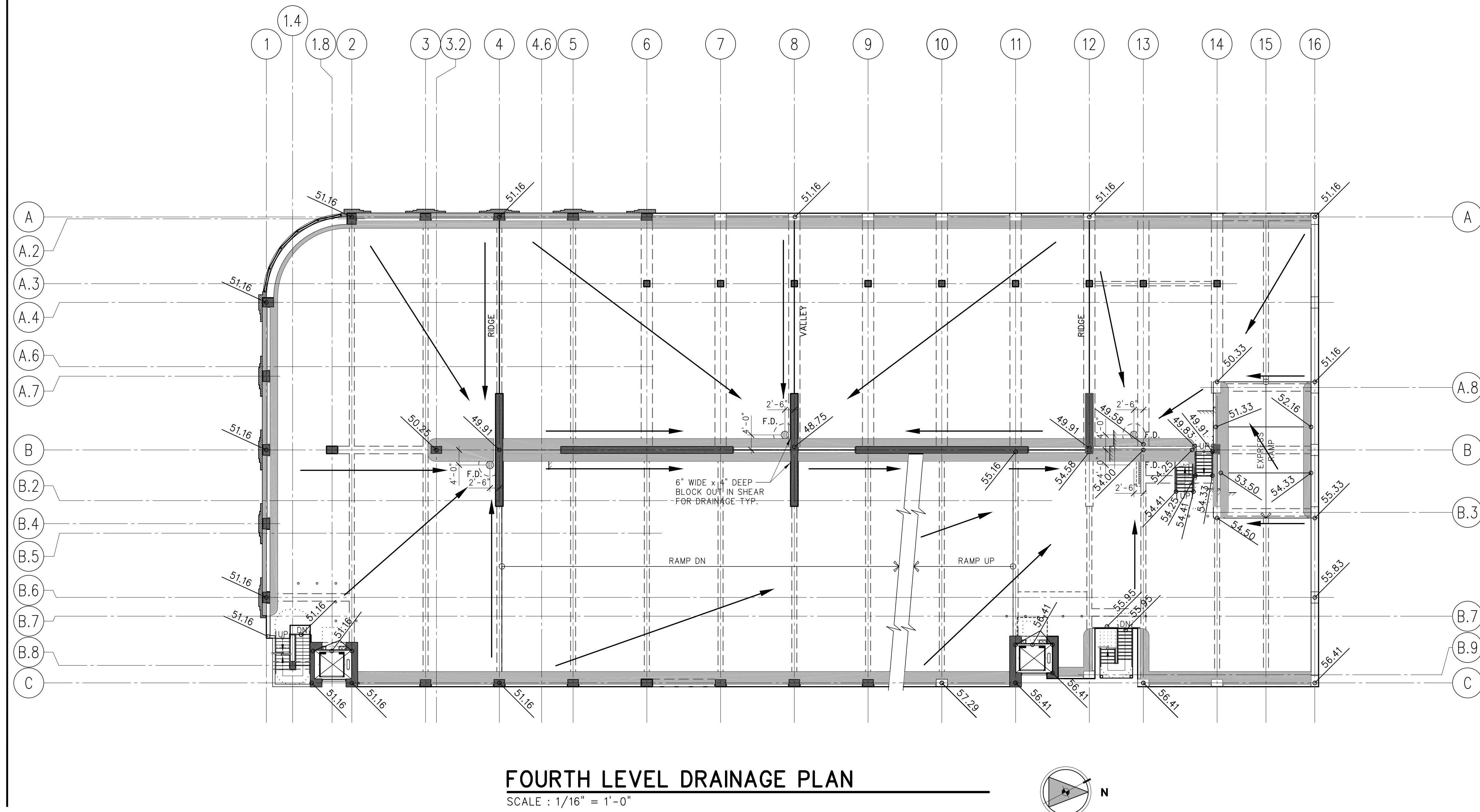
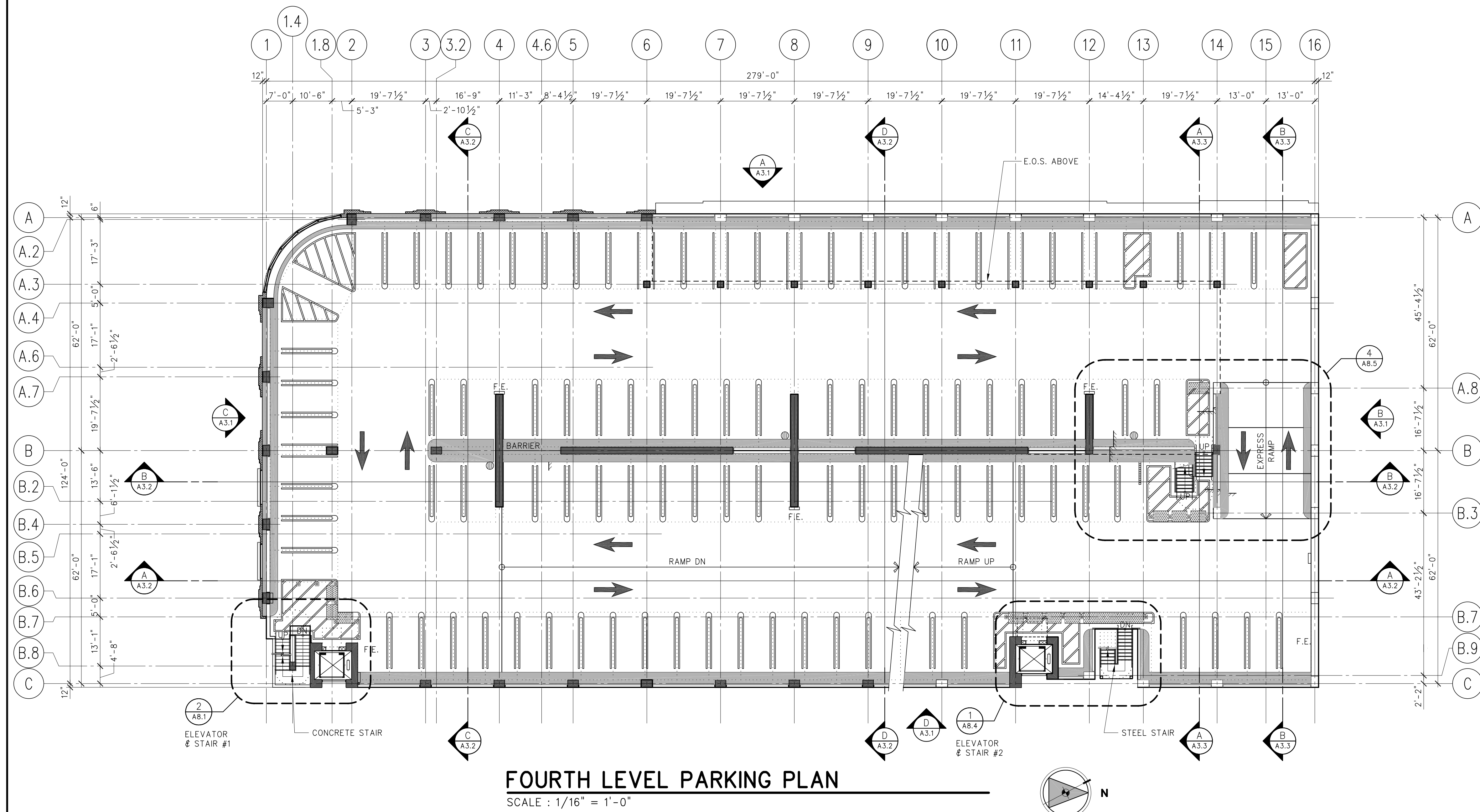
- FOR DRAINAGE NOTES AND LEGEND, SEE SHEET A2.2

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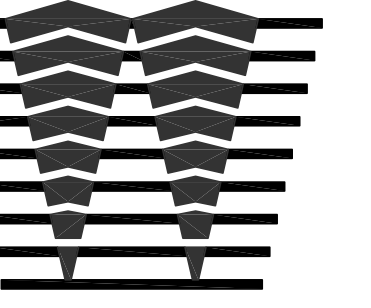
GENERAL NOTES:

1. FOR BALANCE OF NOTES AND LEGEND, SEE SHEET A2.1 AND A2.3

DRAINAGE NOTES:

1. FOR DRAINAGE NOTES AND LEGEND, SEE SHEET A2.2

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FOURTH LEVEL PARKING &amp; DRAINAGE PLAN

## MOUNTAIN VIEW PARKING STRUCTURE

# THE UNIVERSITY OF CHICAGO

[illegible]

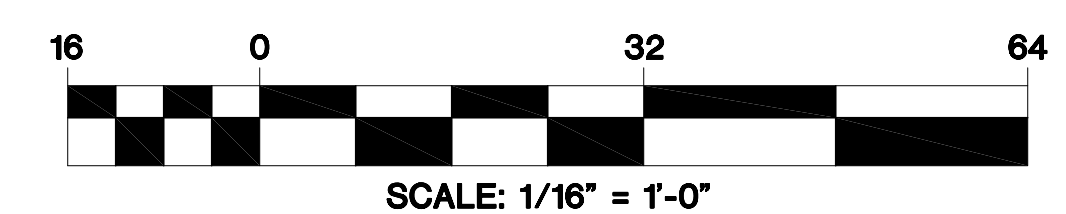
02-24-05  
0% WORKING DOCUMENTS

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HECKED BY	:	WENDLER
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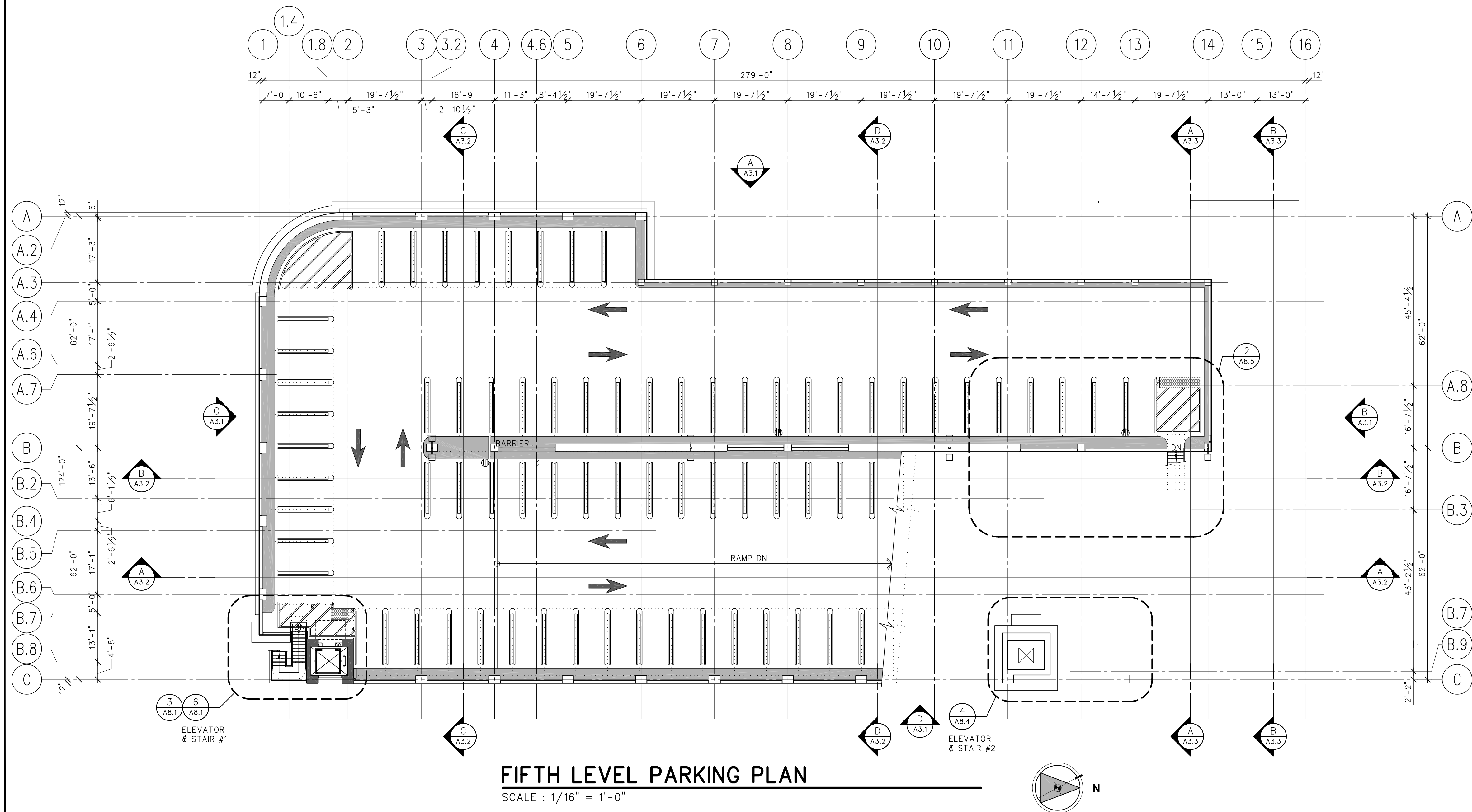
## A2.4

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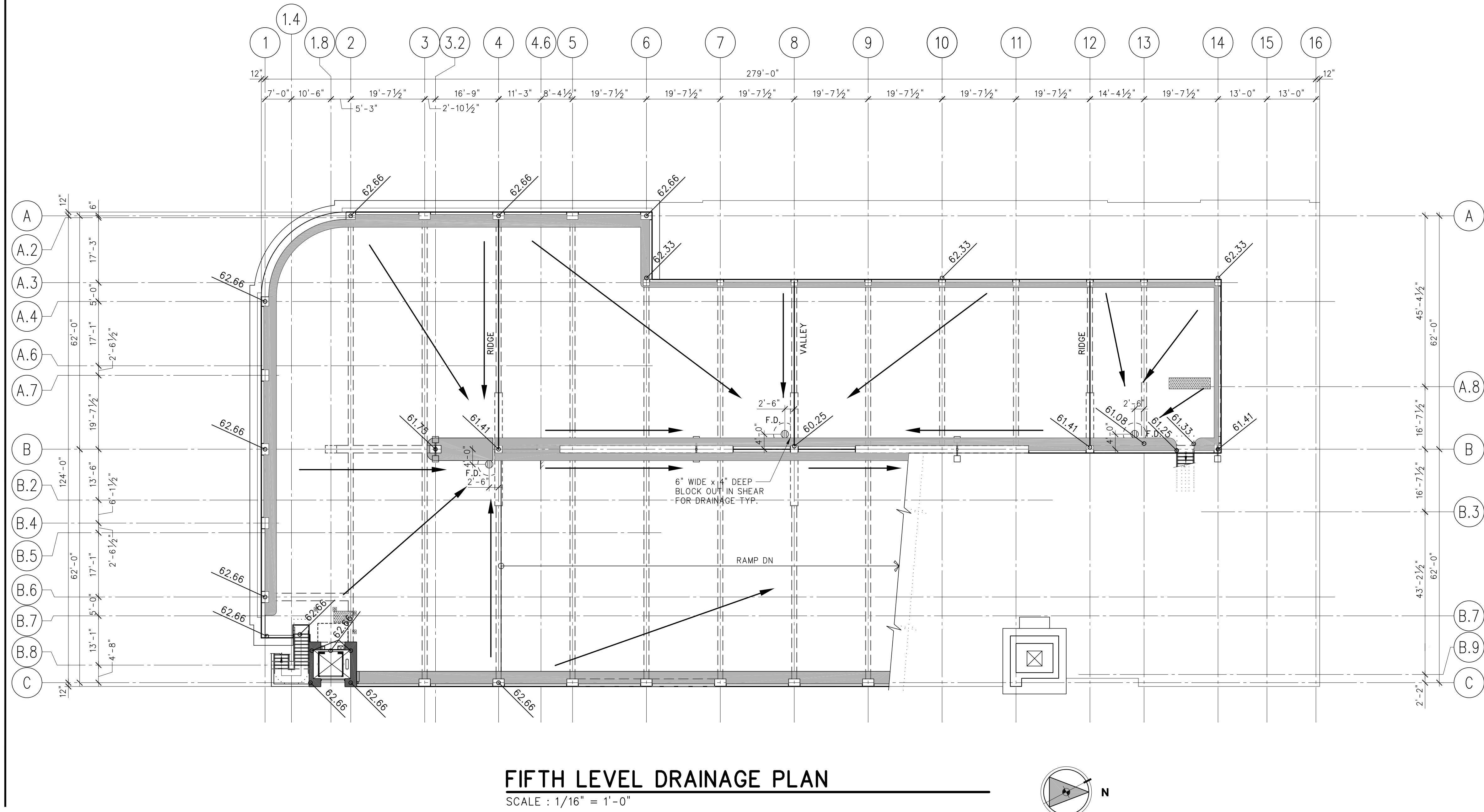


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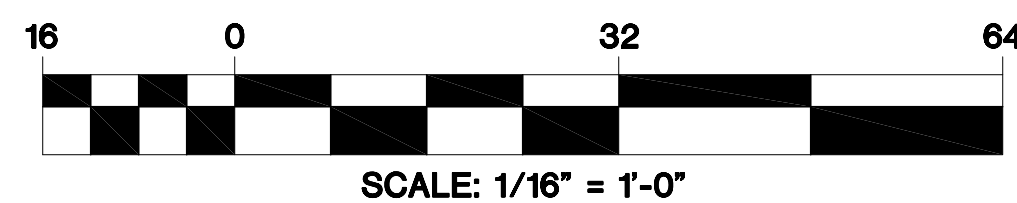
1. FOR BALANCE OF NOTES AND LEGEND, SEE SHEET A2.1



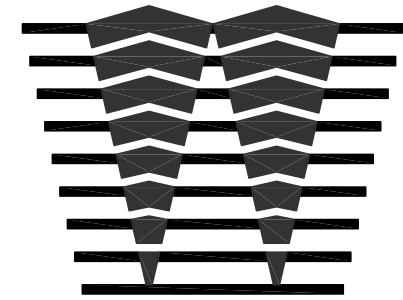
### DRAINAGE NOTES:

1. FOR DRAINAGE NOTES AND LEGEND, SEE SHEET A2.2

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FIFTH LEVEL PARKING & DRAINAGE PLAN

**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

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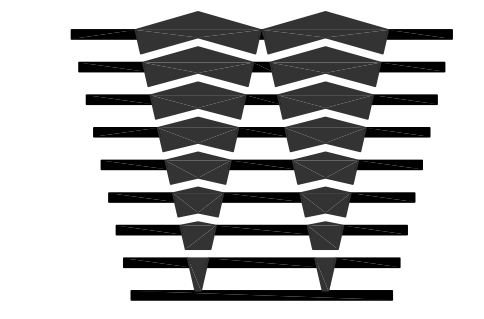
02-24-05  
80% WORKING DOCUMENTS

JOB NO : 02044  
DATE : 01-21-05  
DESIGN : HORNE  
DRAWN : TY  
CHECKED BY : WENDLER  
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**A2.5**





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**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

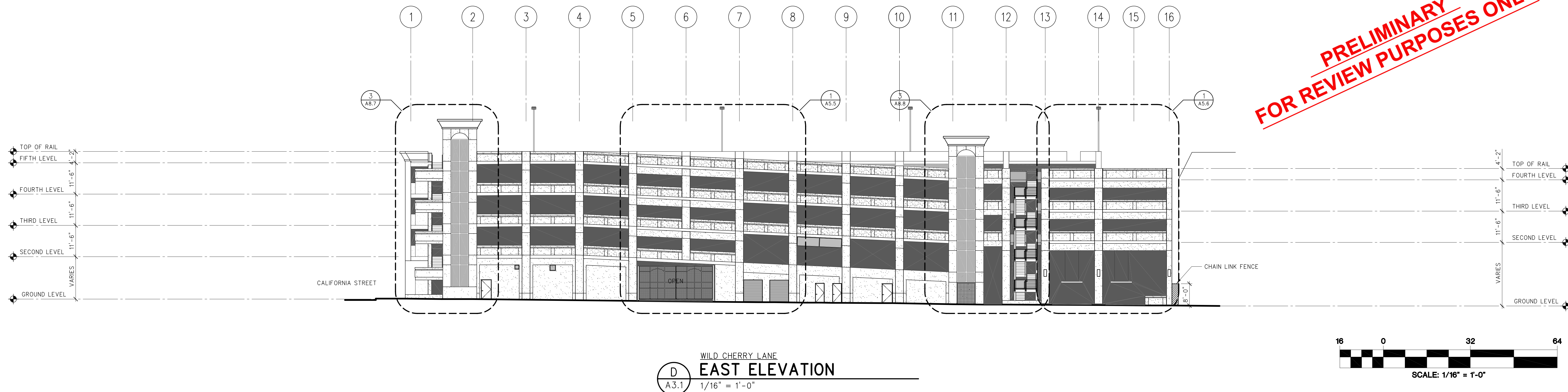
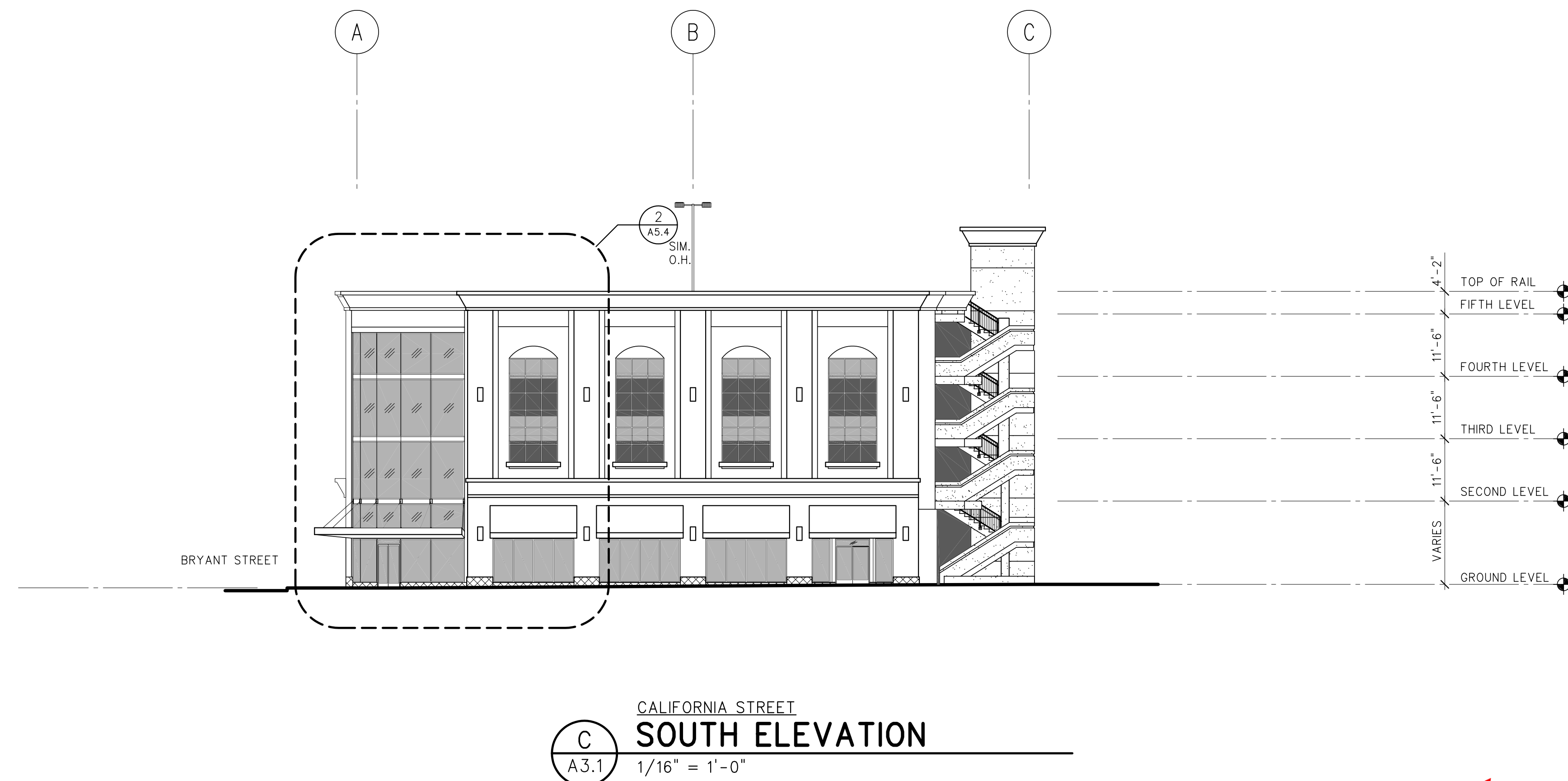
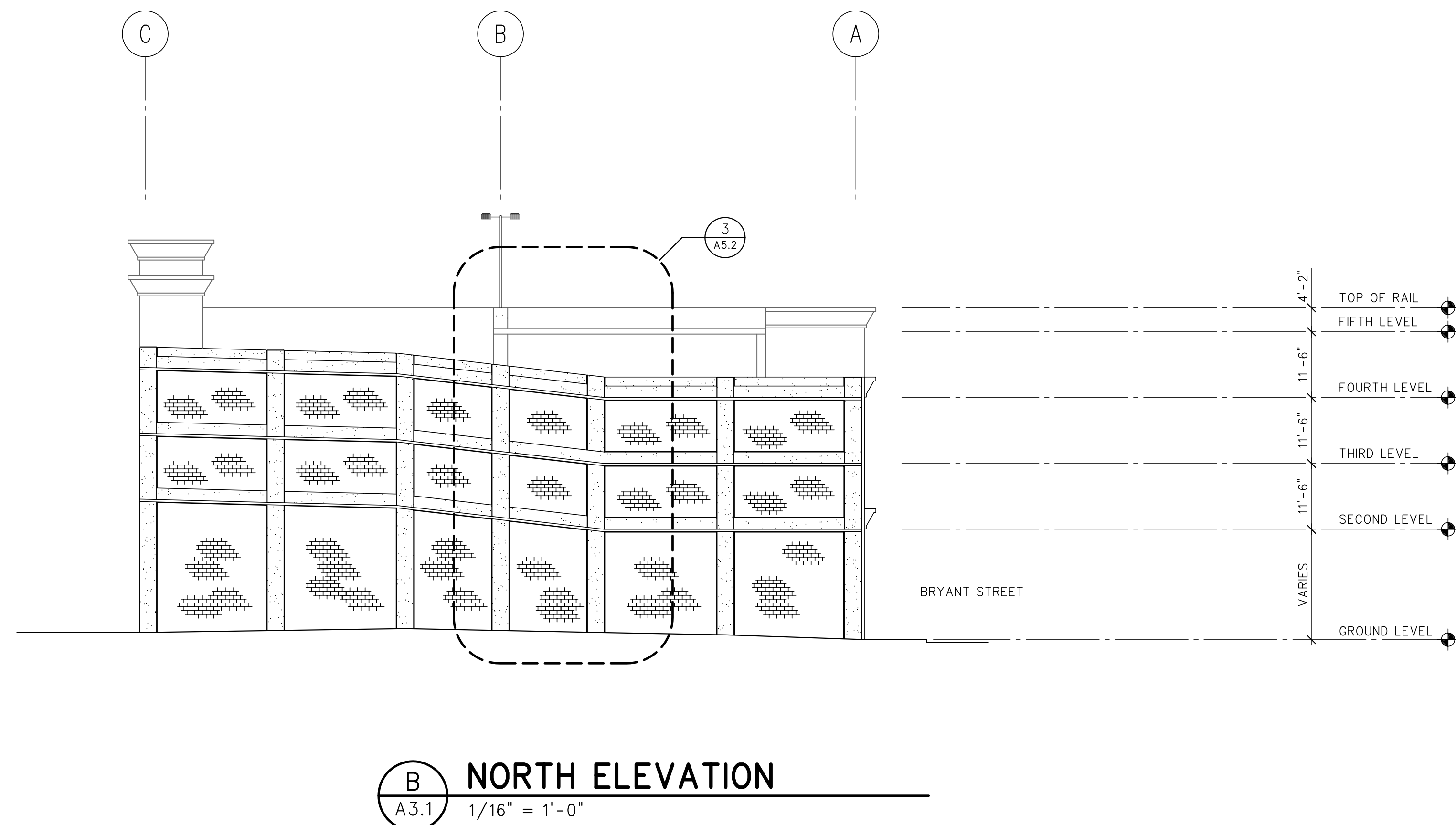
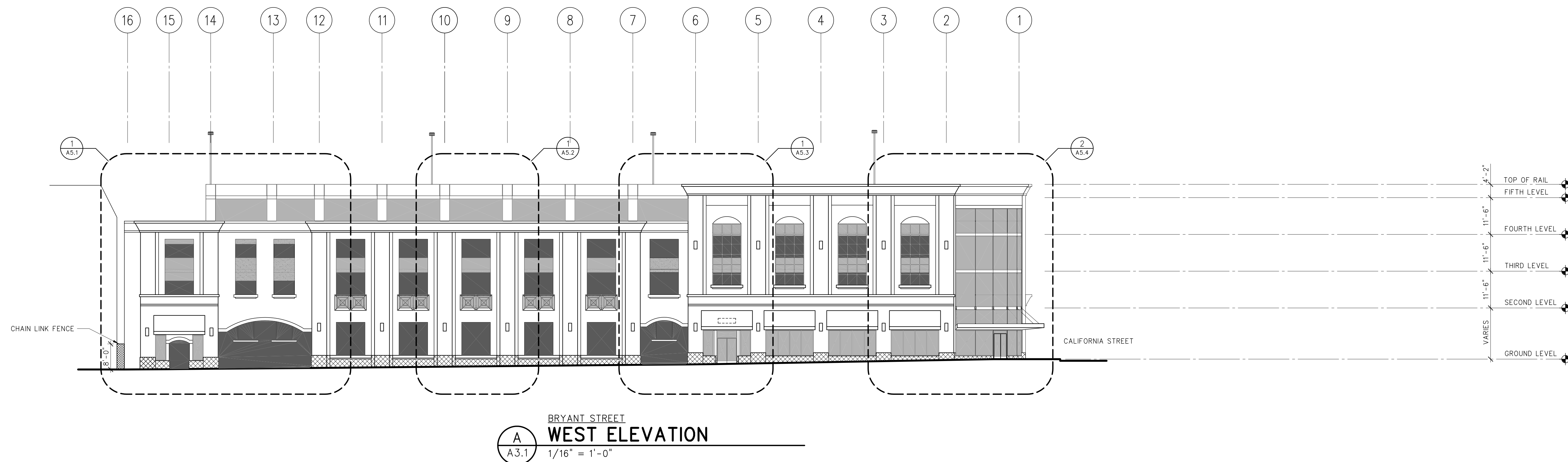
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80% WORKING DOCUMENTS

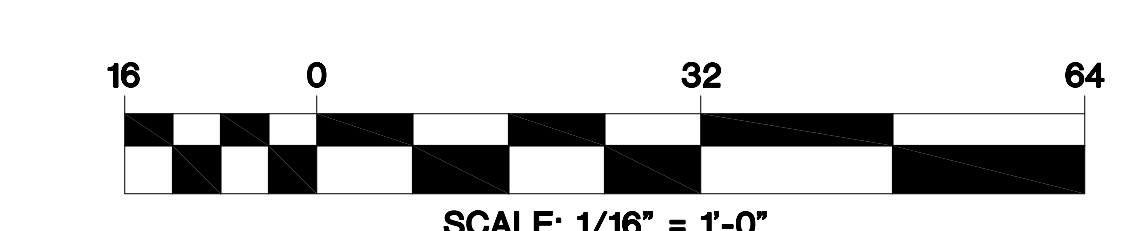
JOB NO : 02044  
DATE : 01-21-05  
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FILE NAME : 0244A31

SHEET

**A3.1**



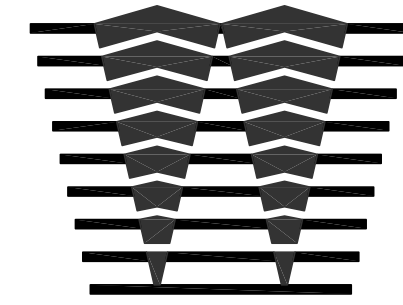
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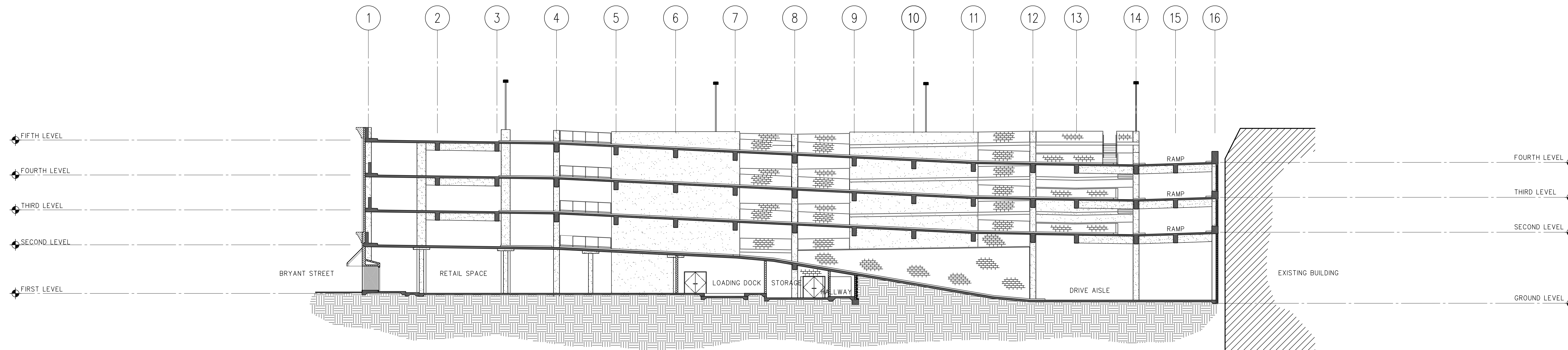
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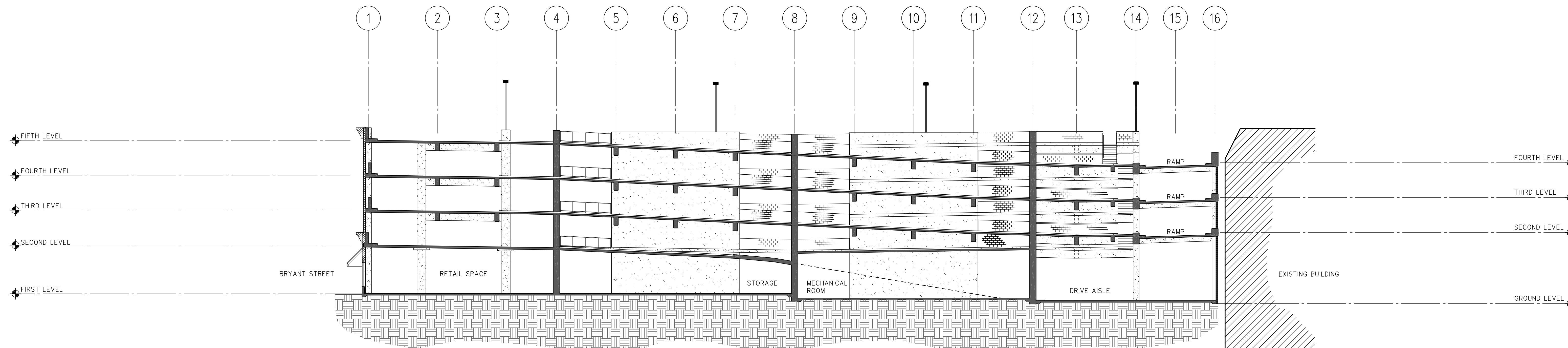


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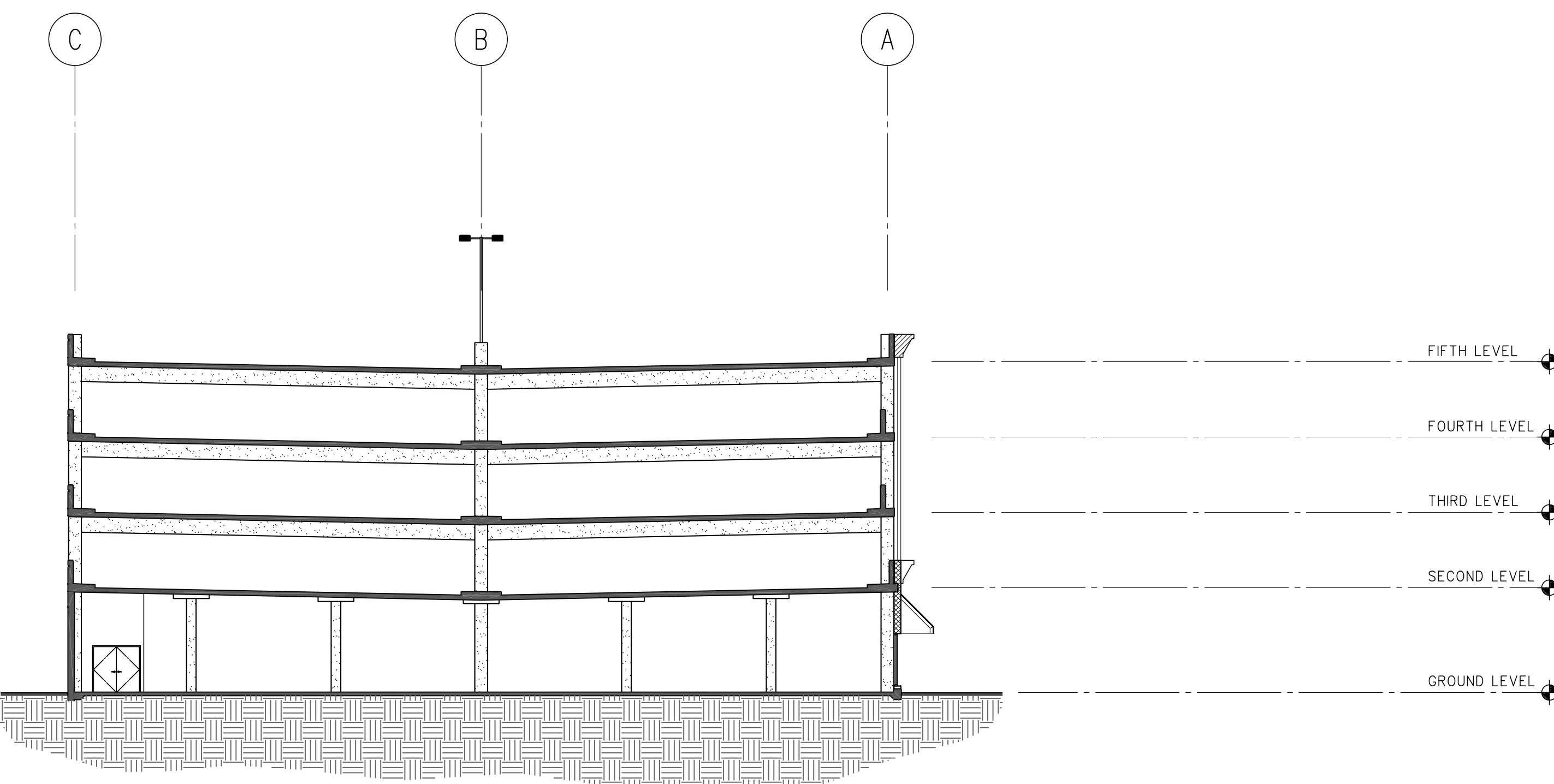
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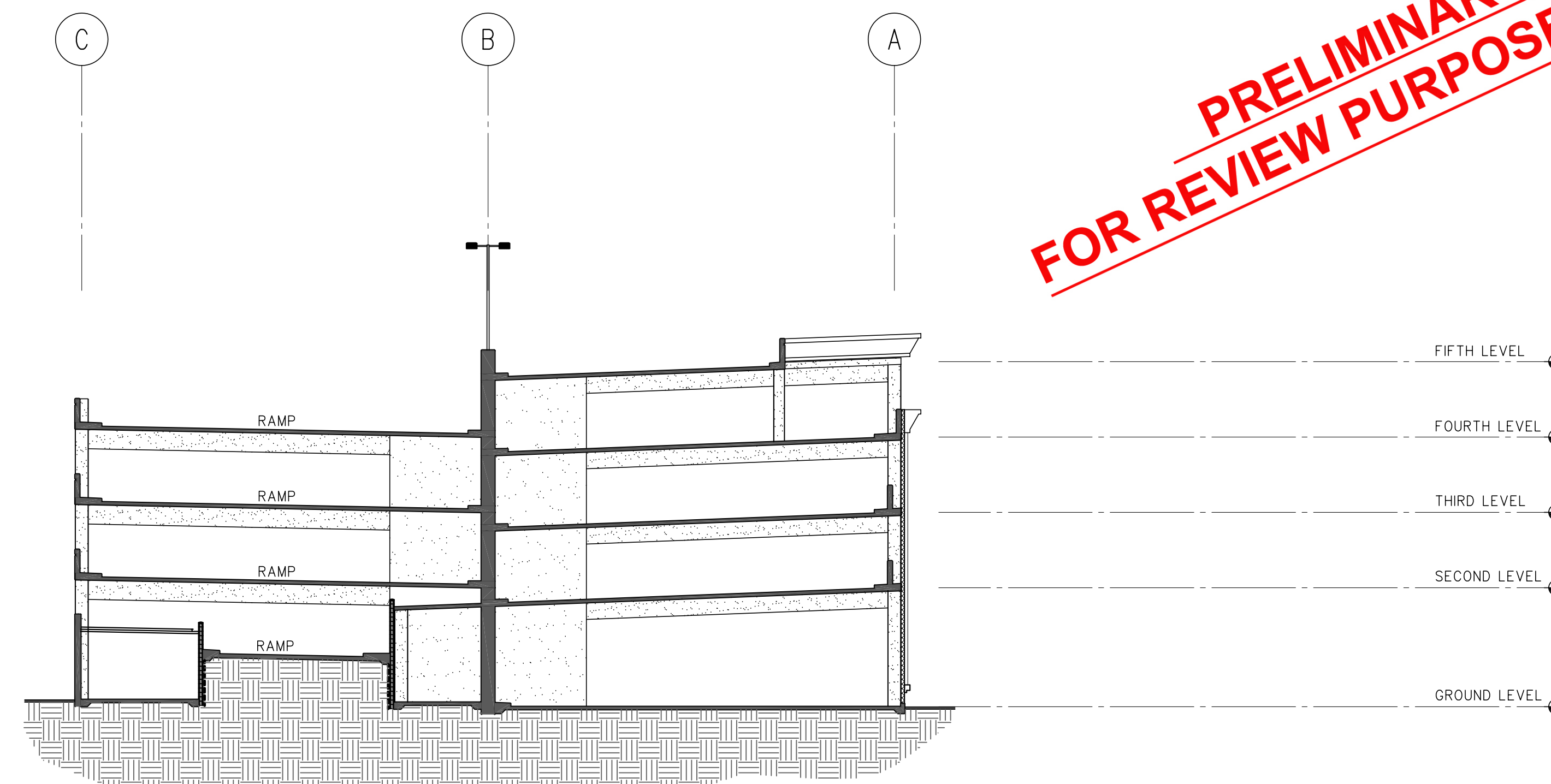
**A**  
A3.2 BUILDING SECTION  
1/16" = 1'-0"



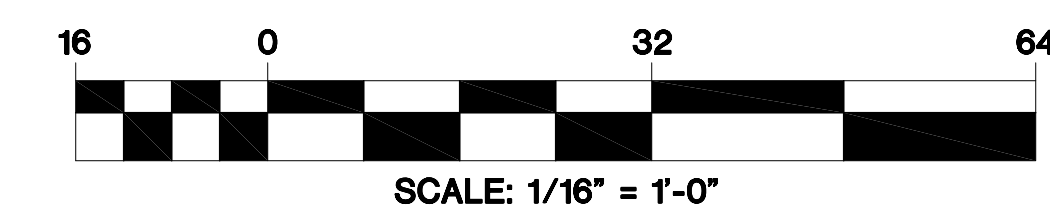
**B**  
A3.2 BUILDING SECTION  
1/16" = 1'-0"



**C**  
A3.2 BUILDING SECTION  
1/16" = 1'-0"



**D**  
A3.2 BUILDING SECTION  
1/16" = 1'-0"



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BUILDING SECTIONS

**MOUNTAIN VIEW  
PARKING STRUCTURE**  
MOUNTAIN VIEW, CALIFORNIA

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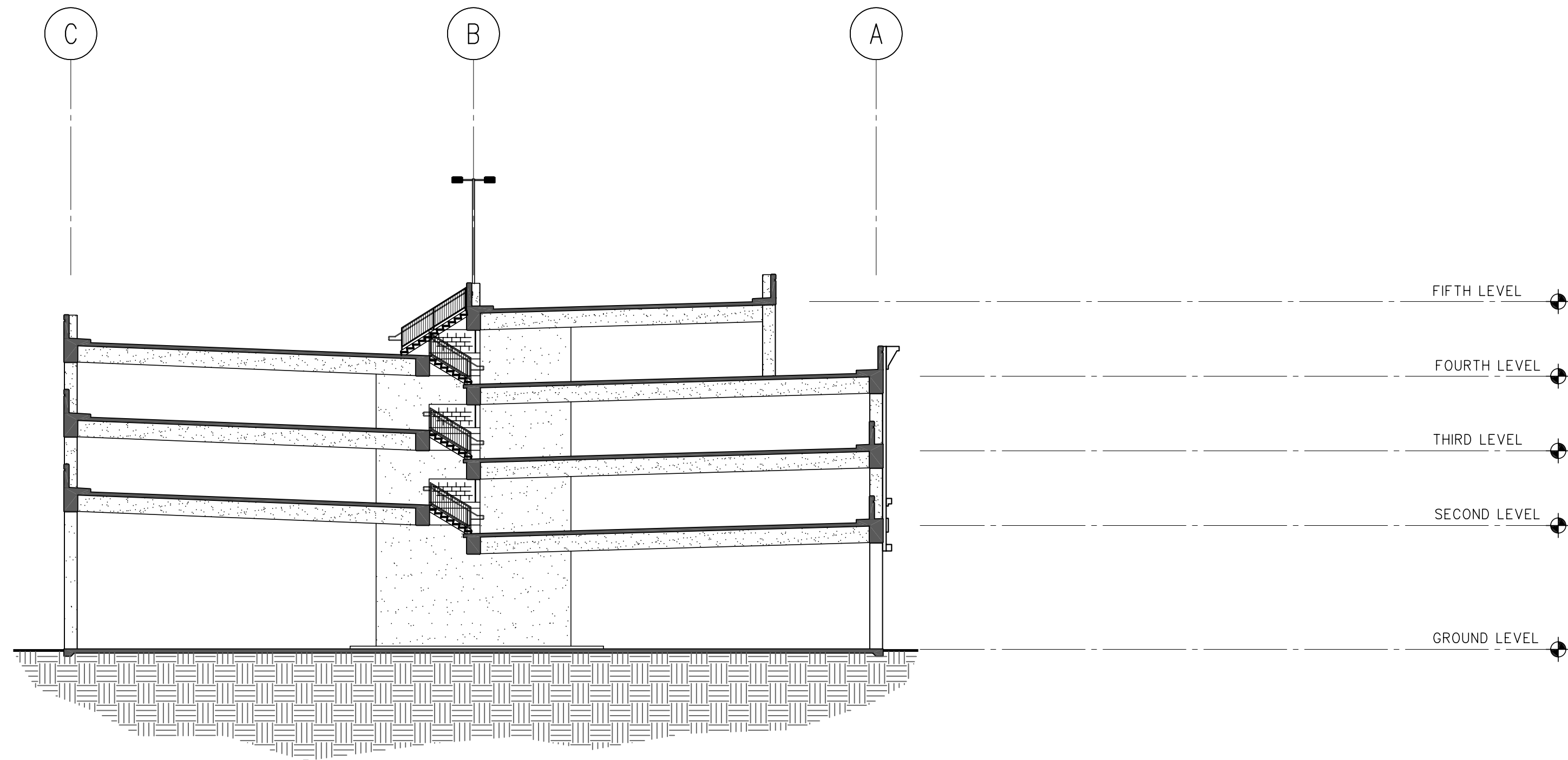
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DATE : 01-21-05  
DESIGN : HORNE  
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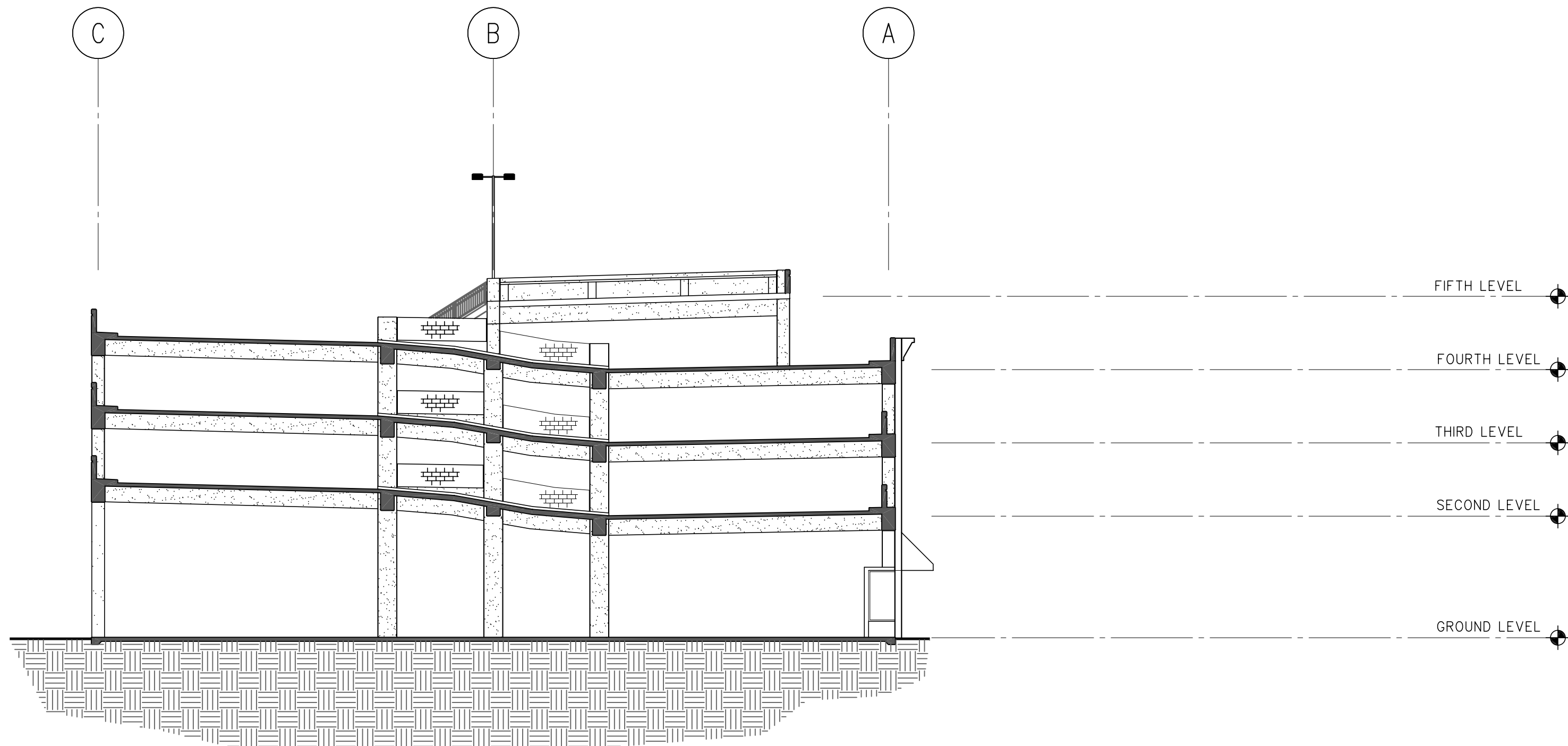
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**A3.2**





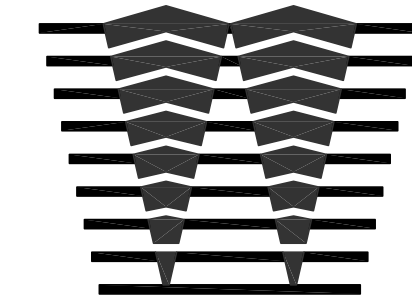
**BUILDING SECTION**  
A  
A3.3 1/16" = 1'-0"



**BUILDING SECTION**  
B  
A3.3 1/16" = 1'-0"

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BUILDING SECTIONS

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DATE : 01-21-05  
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DRAWN : TY  
CHECKED BY : WENDLER  
FILE NAME : 0244A33

SHEET

**A3.3**